

David Boertmann

Index Hygrocybearum

A catalogue to names and potential
names in tribus Hygrocybeae KÜHNER
(Tricholomatales, Fungi)



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Additions and corrections to Index hygrocybearum.

P. 19

Hygrocybe canescens

Add to nomenclatorial synonyms : *Camarophyllus canescens* (A.H. Smith & Hesler) Singer 1951: 148.

P. 21.

Hygrocybe chloroides

Synonym: *Hygrocybe conica* var. *chloroides* Bon 1985a: 5. READ: Bon 1985a: 52.

P. 31

Hygrocybe fibula

I have overlooked the fact that Fayod (1889) published *Hygrocybe fibula* without author citation. It is therefore a nomen nudum, and not the combination, which is listed on p. 31.

Hygrocybe fibula Bresinsky, Bulletin Societe Mycologique France 116: 223. 2000, which was published after the completion of my manuscript, is therefore legitimate, although in contradiction to Recommendation 32C in the St Louis code.

P. 53 and 135

Peck, C.H. (1879): Report of the botanist. - Twenty-eighth annual report of the New York State Museum of Natural History: 31-88.

According to the homepage

<http://www.nysm.nysed.gov/mycology/collections/publist.html> of the New York State Museum this publication was issued in 1876 and not 1879.

P. 54.

Hygrocybe persistens

Notes: Cantrell & Lodge (2000) showed that Britzelmayr's combination in *Hygrophorus* was published earlier than *Mycena acutoconica* (Clem.), why the latter has priority. READ: Cantrell & Lodge (2000) showed that Britzelmayr's combination in *Hygrophorus* was published **later** than *Mycena acutoconica* (Clem.), why the latter has priority."

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Abstract

This nomenclator lists 447 validly published and legitimate names in the genus *Hygrocybe* and 24 in the genus *Camarophylloopsis*. Moreover is a list of potential *Hygrocybe/Camarophylloopsis* candidates provided. For the sake of completeness names from genera synonymised with *Hygrocybe* and *Camarophylloopsis*, but now regarded as belonging to taxa outside *Hygrophoreae*, are listed, supplemented with the invalidly published and illegitimate names. Seventeen new combinations in *Hygrocybe* and ten in *Camarophylloopsis* are proposed (see p. 118) and two epitypes are selected (*Hygrocybe glutinipes* and *Hygrocybe insipida*).

Preface

In 1998, I described a new *Hygrocybe* species collected in South Africa (Boertmann 1998). The preparations to this work involved careful scrutiny of the literature on tropical and subtropical species of *Hygrocybe/Hygrophorus* to find matching descriptions and occupied names. This information was filed in a database. Gradually the idea evolved that this database could be expanded to a nomenclator to the genus *Hygrocybe*. However, the task was huge and much more time consuming than originally anticipated, as it involved extensive literature studies and two visits to the library at Kew. Additionally, I decided to include the genus *Camarophylloopsis*, so that the nomenclator would cover the tribus Hygrophoreae Kühner, however excluding *Dermoloma*, which recently was included (Arnolds 1992). Whether Hygrocybeae is a natural (monophyletic) or an artificial taxon remains to be studied in detail.

It is my hope that this work will contribute to a general tidying up of the probably large number of synonyms within the tribus and may facilitate the description of new taxa.

Please communicate further information, overlooked names, disagreements, errors in the text and deviating interpretations to me, it will be gratefully received.

Introduction

Hygrocybeae Kühner (1979a) as interpreted by Bas (1990) includes the two genera *Hygrocybe* (Fr.) Kumm. and *Camarophylloopsis* Herink. Arnolds (1992) later included the genus *Dermoloma*, but this is not considered here. *Hygrocybe* applied as a generic name dates back to Kummer (1871). Fries (1821) introduced the name (as *Hygrocybi*) for a subtribus in tribus *Clitocybe* (genus *Agaricus*). Later Fries (1835) erected *Hygrophorus* as a genus without mentioning lower ranks or species, while “*Limacii, Camarophylli et Hygrocybes*” were listed in Fries (1836). In Fries (1836-1838) *Hygrocybe* was mentioned as a tribus in *Hygrophorus*. Later again Fries (1849) changed his mind and treated *Hygrocybe* as a subgenus. Fayod (1889) gave anatomical evidence to support the recognition of *Hygrocybe* (as well as *Camarophyllus* and *Hygrophorus* s.s.) as a separate genus. Since then, European authors in general have treated the taxon *Hygrocybe* as a genus, although interpreted somewhat differently: in a wide sense (e.g. Arnolds 1990, Boertmann 1995) or in a narrower sense (e.g. Herink 1958, Kovalenko 1989, Horak 1990). On the contrary, many North American authors adopt the Friesian concept of the genus *Hygrophorus* including *Hygrocybe* at section level (e.g. Hesler & Smith 1963, Bird & Grund 1979, Largent 1985a, b). It is not my intention to discuss the different delimitations of *Hygrocybe* or the many infrageneric taxa. Nor will the relationships to other genera and the nomenclatorial consequences be treated. Interested readers are referred to Bas (1988).

Camarophylloopsis Herink (1958) (non *Camarophylloopsis* Hesler & A.H. Smith) was shown by Arnolds (1986e) to have priority over *Hygrotrama* Singer (1959). Heim (1957) considered also this taxon as a genus and named it *Hodophilus*. This name was, however, invalidly published (without Latin diagnosis) and was validated much later than the publication dates of the two other names (Heim 1966).

Methods and materials

This index comprises five lists:

1. legitimate and validly published combinations in *Hygrocybe* until spring 2001.
2. legitimate and validly published combinations in *Camarophylloopsis* until spring 2001.
3. combinations likely to be transferred to *Hygrocybe* or *Camarophylloopsis*. I hesitate to do the formal transfer, due to lack of knowledge on the single taxa, or because type studies are required.
4. combinations in genera here treated as synonyms to *Hygrocybe*, but not now belonging to genera outside Hygrophoreae.
5. invalidly published and illegitimate combinations in *Hygrocybe* and *Camarophylloopsis*.

Combinations are listed as far as possible at the rank of species. Although, I do not necessarily agree with this interpretation.

Extended lists of synonyms are given, so it should be possible via the indices to find all combinations in the following genera: *Aeruginospora*, *Bertrandia*, *Camarophylloopsis*, *Camarophyllus*, *Cuphophyllus*, *Gliophorus*, *Hodophilus*, *Humidicutis*, *Hygrocybe*, *Hygrotrama*, *Neohygrocybe* and *Pseudohygrocybe*. A few more genera have traditionally been interpreted as being closely related to *Hygrocybe* (e. g. *Hygroaster*), but they are excluded here.

However, many taxa which in fact belong to *Hygrocybe* still await transfer from *Hygrophorus* to *Hygrocybe* (apply also to *Camarophylloopsis*), and I have compiled a list of candidates to be included in *Hygrocybe* and *Camarophylloopsis*. This list (No. 3) is probably not complete, as many may have been overlooked. Moreover, some taxa may have been included, which belong to *Hygrophorus* s.s. There may also be many other taxa described in white-spored genera like *Cantharellus*, *Omphalina* s.l., *Clitocybe* and *Mycena* which actually should be transferred to *Hygrocybe*, but only future type studies and revisions will reveal these.

Another reason for inclusion of the list of potential *Hygrocybe/Camarophylloopsis* names is to avoid the problem of identical or nearly identical epithets in the related genera. Among others: *Hygrophorus albipes* Peck/*Hygrotrama albipes* Singer, *Hygrocybe cavipes* E. Horak/*Hygrophorus cavipes* Dennis & Reid, *Hygrocybe elegans* E. Horak/*Hygrophorus elegans* Killerm., *Camarophylloopsis hiemalis* (Singer & Clemençon) Arnolds/*Hygrophorus hiemalis* Velen., *Hygrophorus lactarioides* Henn./*Hygrocybe lactarioides* Singer, *Hygrophorus mutabilis* Petch/*Hygrocybe mutabilis* Singer, *Hygrocybe occidentalis* (Dennis) Pegler/*Hygrophorus occidentalis* A.H. Smith & Hesler, *Hygrocybe paraibensis* Singer/*Camarophyllus paraiboensis* Singer, *Hygrocybe pulcherrima* Fayod/*Hygrophorus pulcherrimus* Velen., *Hygrocybe rosella* E. Horak/*Humidicutis rosella* (Speg.) Singer.

For each name relevant nomenclatorial data are given: A reference to the *protologue* and *basionym* (if relevant) in full, as some of the abbreviation of early references are ambiguous. *Types* are quoted as they are recorded in the protologues supplemented with further information, if later authors give such. The following is listed if possible: Country, state, region, collection site, date, collector(s), collection number (in brackets if another person collected the specimen), herbarium and herbarium number both in brackets.

In older literature (before 1958) types were rarely designated explicitly, however, if only a single element is quoted this is regarded as a type designation (Art. 9.1, 37.3). Many protologues published before 1990 (Art. 37.5), do not specify the herbarium. I have contacted many herbaria about their types, and received replies from most. Type locations have been also retrieved from comprehensive works like Halling (1986), Hein (1989) or the "Index to C.H. Peck's types" (Telnet-site: Fungi.ars.grin.gov). Later descriptions, notes, comments, and figures explicitly based on type material are also cited.

The lists of *nomenclatorial synonyms* (\equiv) are intended to be complete, while the lists of *taxonomic synonyms* ($=$) are far from comprehensive, as I have not specifically searched for them, and many mainly older and out-of-use synonyms are probably missing. Taxonomic synonyms are a matter of discussion, and references are given except to those, which are my personal point of view.

Finally are some *notes* added when necessary.

Combinations in *Hygrocybe* now regarded as belonging to other genera, are printed in a smaller type-face.

The American mycologist W.A. Murrill used the generic name *Hydrocybe* when describing several new species. *Hydrocybe* was adopted from Karsten (1879), and obviously was an unintentional misspelling for *Hygrocybe* Fr., as Karsten explicitly referred to Fries and later spelled it *Hygrocybe* (e.g. Karsten 1890). Nevertheless, Murrill used this name throughout his mycological career. Most authors (e.g. Singer & Smith 1946, Donk 1962, Singer 1986) accept this as a typographical error (Art. 45.2, 60 and 61.4), and see no reason to make a formal combination into *Hygrocybe*, a view also adopted here. The name *Hydrocybe* is usually applied as an infrageneric taxon in the genus *Cortinarius*. However, a few authors formally transfer Murrills *Hydrocybe* names into *Hygrocybe* (e.g. Pegler 1983, Natarajan & Puroshothama 1987, Courtecuisse 1989, Lodge & Pegler 1990). It is also worth noting that also the opposite has occurred: e.g. Berkeley & Broome (1871b) and Johnson (1877, 1878) have used the name *Hygrocybe* for an infrageneric taxon in genus *Cortinarius*.

The generic names *Camarophyllus* and *Cuphophyllus* have in this context been quoted without the reservations pointed out by several authors. It has been argued that *Camarophyllus* at genus level is a synonym of *Hygrophorus* s.s. because *Agaricus camarophyllus* Fr.: Fr. was regarded as the type species as it was the first mentioned species by Fries (Donk 1962). This point of view was accepted by e.g. Bon (1984b) and Arnolds (1986e) and I agree too. On the contrary e.g. Singer & Smith (1946) and Singer (1951b) selected *Camarophyllus pratensis* (Pers.: Fr.) P. Kumm. as type for the genus, an action followed by e.g. Horak (1968). The name *Cuphophyllus* was given by Donk (1962) at subgeneric level, and was later raised to genus level by Bon (1984b). *Cuphophyllus* at genus level seems however to be superfluous (illegitimate) because Bon included the older genus *Aeruginospora* Höhn. (Arnolds 1986e, IF 5: 663). As long as *Aeruginospora singularis* Höhn., the type of *Aeruginospora*, is not excluded from the genus *Cuphophyllus*, all *Cuphophyllus* names remain superfluous, although not illegitimate (Art. 52.3) and should be transferred to *Aeruginospora*.

Almost all the primary literature with protologues and relevant combinations have been studied, including many references unavailable in Denmark. These were provided as photocopies or electronically by friends, colleagues and librarians in Europe, USA and Australia.

Many older names of species or infrageneric taxa have no extant type specimens, and only published or unpublished original illustrations of the specimens are preserved. It could perhaps be argued that these illustrations are the holotypes. Or they could be selected as lectotypes. However, it makes no difference whether they are holo- or lectotypes, because an illustration never allows checking of characters. The most correct and operational action in this respect must be the selection of epitypes.

A number of new combinations in *Hygrocybe* (17) and *Camarophylloopsis* (10) have been made. These new combinations comprise mainly well-documented taxa described in the synonymous genera *Gliophorus*, *Neohygrocybe*, *Humidicutis*, *Camarophyllus* and *Hygrotrama*. I hesitate to transfer the many *Hygrophorus*

names, as this should await a general revision or type studies. For example are many of the older protologues insufficient to decide whether a taxon belongs to one or the other genus. Taxonomic synonyms to existing and older *Hygrocybe* names are not transferred.

Author citations follow Brummitt & Powell (1992), and herbaria acronyms Index Herbariorum (Holmgren et al. 1990) as far as they are listed there.

References to the International Code of Botanical Nomenclature (St Louis Code) (Greuter et al. 2000) are given as references to the specific articles (Art. xx,x), and references to Index of Fungi (issued by CAB International) as IF vol. and page.

Britzelmayr's (1879-1897) plates are referred to as Höhnel (1906) and Bresinsky & Stangl (1964, 1966) do, with the number printed in bold-face in the top right corner as the plate number and the hand-written numbers as figure number.

***Hygrocybe* names, validly published and legitimate**

Hygrocybe (Fr.) P. Kumm. 1871: 26, lectotype: *H. conica* (Schaeff.: Fr.) P. Kumm. (Donk 1962). Synonyms: *Godfrinia* Maire 1902: 116, lectotype: *G. conica* (Schaeff.: Fr.) Maire (Donk 1962); *Aeruginospora* Höhn. 1908: 1012, type: *A. singularis* Höhn.; *Gliophorus* Herink 1958: 80, type: *G. psittacinus* (Schaeff.: Fr.) Herink; *Cuphophyllus* (Donk) Bon 1984b: 10, type: *C. pratensis* (Pers.: Fr.) Bon.; *Pseudohygrocybe* (Bon) Kovalenko 1988: 22, type: *P. coccinea* (Schaeff.: Fr.) Kovalenko; *Neohygrocybe* Herink 1958: 70, type: *N. ovina* (Bull.: Fr.) Herink; *Humidicutis* (Singer) Singer 1959: 225, type: *H. marginata* (Peck) Singer; *Bertrandia* Heim 1936: 224, type: *B. astatogala* Heim ex Heim; *Camarophyllus* (Fr.) P. Kumm. 1871: 26 misapplied, type: *Agaricus camarophyllus* Fr.: Fr. (Donk 1962, Arnolds 1986e), not *Agaricus pratensis* Pers.: Fr as selected by Singer & Smith (1946) and Singer (1951b).

Hygrocybe acicula (Schaeff.) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 309. 1889.

Basionym: *Agaricus acicula* Schaeff., Fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones nativis coloribus expressae tomus quartus et ultimus: 52. 1774.

Type: Not designated. Protologue, with illustration (plate 222), based on material from Germany, Bayern.

≡ *Mycena acicula* (Schaeff.) P. Kumm. 1871: 109, *Marasmiellus acicula* (Schaeff.) Singer 1951a: 301, *Trogia acicula* (Schaeff.) Corner 1966: 194.

Hygrocybe acuta F.H. Møller, Fungi of the Færoes: 143. 1945.

Holotype: Faeroe Islands, Eysturoy, Skáli, 3 Sept. 1938, F.H. Møller (C). Studied by Kühner (1976) and Boertmann (1995).

Notes: Later redescribed (superfluous) as *Hygrocybe acutopunicea* R. Haller Aar. & F.H. Møller (1956).

Hygrocybe acutoconica (Clem.) Singer, Lilloa 22: 153. 1951 "1949".

Basionym: *Mycena acutoconica* Clem., in A.F. Woods: Botanical Survey of Nebraska 2: 38. 1893.

Holotype: USA, Nebraska, Sioux Co., Squaw Canon., July-Aug. 1892, F.E. Clements 506 (NEB).

≡ *Prunulus acutoconicus* (Clem.) Murrill 1916a: 330, *Hygrophorus acutoconicus* (Clem.) A.H. Smith 1947: 472.

= *Hygrocybe aurantiolutescens* P.D. Orton, *Hygrocybe californica* Murrill (Hesler & Smith 1963), *Hygrocybe crocea* (Bull.) Singer, *Hygrocybe langei* Kühner, *Hygrocybe persistens* (Britzelm.) Singer (Arnolds 1986d), *Hygrocybe subruber* Murrill (Hesler & Smith 1963).

Note: Cantrell & Lodge (2000) showed that Clements name (*Mycena acutoconica*) was published earlier than *Hygrophorus persistens* (Britzelm.) Britzelm.

Hygrocybe acutoconica var. *microspora* (Hesler & A.H. Smith) S.A. Cantrell & Lodge, Mycological Research 104: 878. 2000.

Basionym: *Hygrophorus acutoconicus* var. *microsporus* Hesler & A.H. Smith, North American species of *Hygrophorus*: 139. 1963.

Holotype: USA, Tennessee, near Knoxville, 11 Aug. 1937, L.R. Hesler 10798 (TENN).

Hygrocybe adonis (Singer) Boertm. comb. nov.

Basionym: *Camarophyllus adonis* Singer, Sydowia 6: 172. 1952.

Holotype: Argentina, Tierra del Fuego, Est. Nueva Argentina, 1950, R. Singer M-351 (LIL).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe albifolia (Hesler & A.H. Smith) R. Valenz., Guzmán & J. Castillo, Boletín de la sociedad Mexicana de micología 15: 71. 1981.

Basionym: *Hygrophorus singeri* var. *albifolius* Hesler & A.H. Smith, North American Species of *Hygrophorus*: 217. 1963.

Holotype: USA, Oregon, Willamette, 16 Nov. 1947, F.P. Sipe 1057 (MICH).

≡ *Hygrocybe singeri* var. *albifolia* (Hesler & A.H. Smith) Singer 1969: 17.

Hygrocybe alboubonata Murrill (as "*Hydrocybe alboubonata*"), Mycologia 3: 195. 1911.

Holotype: Jamaica, New Haven Gab, 4 Jan. 1909, W.A. & E.L. Murrill 764 (NY).

≡ *Hygrophorus alboubonatus* (Murrill) Murrill 1912b: 332, *Camarophyllus alboubonatus* (Murrill) Murrill 1916a: 390.

Notes: According to Hesler & Smith (1963) this is an *Entoloma*, probably *E. cuspidata* Peck.

Hygrocybe alliciens (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 63. 1986.

Basionym: *Hygrophorus alliciens* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 563. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Nov. 1868, Thwaites 815 (K). Studied by Pegler (1986).

Hygrocybe alpicola Kobayasi, in Kobayasi & Otani: Bulletin of the national Science Museum, Tokyo 14: 497. 1971.

Holotype: Papua New Guinea, Mt Wilhelm, 9 Jan. 1970, Y. Kobayasi & Y. Otani (TNS).

Hygrocybe alwisii (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 66. 1986.

Basionym: *Hygrophorus alwisii* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 565. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, Nov. 1868, Thwaites 814 (K). Studied by Pegler (1986).

Hygrocybe amazoniensis Singer, Fieldiana, Botany N.S. 21: 3. 1989.

Holotype: Brazil, Amazonas, 30 km north of Manaus (Embrapa), 13 Feb. 1977, R. Singer B-10097 (INPA).

Hygrocybe ammophila Singer, Mycopathologia et mycologia applicata 34: 129. 1968.

Holotype: Uruguay, Punta del Este, 5 June 1965, U. Eskuche (Singer B-4138) (BAFC).

Hygrocybe amoena (Lasch) Ricken, Vademecum für Pilzfreunde: 185. 1918.

Basionym: *Agaricus conicus a. amoenus* Lasch, Linnaea 3: 380. 1828.

Type: Not designated. Protologue based on material from Germany, Brandenburg. ≡ *Hygrophorus amoenus* (Lasch) Quél. (as *H. "amoena"*) 1872: 192.

= *Hygrocybe subglobispora* (P.D. Orton) M.M. Moser (see Arnolds 1986b).

Hygrocybe andersonii Cibula & N.S. Weber, Mycologia 88: 514. 1996.

Holotype: USA, Mississippi, Jackson Co., Gulf Islands National Seashore, Horn Island, 2 Dec. 1982, N.S. Weber 4681 (MICH).

Hygrocybe angustifolia (Murrill) Candusso, *Hygrophorus* s.l.: 357. 1997.

Basionym: *Camarophyllus angustifolius* Murrill, North American Flora 9: 386. 1916.

Holotype: USA, New Jersey, Fort Lee, Sept. 1902, F.S Earle, & W.A. Murrill 1387 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus angustifolius* (Murrill) Murrill 1917: 40, *Hygrophorus angustifolius* (Murrill) Hesler & A.H. Smith 1963: 60 superfluous combination, *Cuphophyllus angustifolius* (Murrill) Bon 1984b: 10.

Hygrocybe anisa (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 66. 1986.

Basionym: *Agaricus anisus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 516. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Nov. 1868, Thwaites 831 (K). Studied by Pegler (1986).

≡ *Clitocybe anisa* (Berk. & Broome) Sacc. 1887: 169.

Hygrocybe anomala A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 919. 1997.

Holotype: Australia, New South Wales, Blackneath, 23 June 1983, A.E. Wood (UNSW no. 83/991). Supplementary notes on the type by Young (1999).

Hygrocybe anomala var. *ianthinomarginata* A.M. Young 1999, Austrobaileya 5: 551.

Holotype: Australia, New South Wales, Lane Cove Bushland Park, 13 June 1998, R. & E. Kearney & A.M. Young (DAR no. 73918).

Hygrocybe antillana (Pegler) Boertm. comb. nov.

Basionym: *Camarophyllus antillanus* Pegler, Agaric Flora of the Lesser Antilles: 49. 1983.

Holotype: Guadeloupe, Forêt des Bains Jaunes, 11 Oct. 1977, J.P. Fiard 1021 (K).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe apala (Berk. & Broome) Pegler & R.W. Rayner, Kew Bulletin 23: 382. 1969.

Basionym: *Hygrophorus apalus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 565. 1871.

Holotype: Sri Lanka, without locality, July 1869, Thwaites 1204 (K). Studied by Pegler (1986).

Note: Epithet spelled “*hapalus*” by Saccardo (1887).

Hygrocybe appalachianensis (Hesler & A.H. Smith) I. Kronawitter (as *H. “appalachiensis”*) in Kronawitter & Bresinsky: Regensburger Mykologische Schriften 8: 58. 1998.

Basionym: *Hygrophorus appalachianensis* Hesler & A.H. Smith, North American Species of *Hygrophorus*: 147. 1963.

Holotype: USA, Tennessee, Cades Cove, Great Smoky Mts. National Park, 28 July 1958, L.R. Hesler 22967 (TENN).

Hygrocybe apricosa E. Horak, Beihefte zur Nova Hedwigia 43: 146. 1973.

Type: New Zealand, Stewart Island, between Christmas Village and Mt Anglem, 15 Mar. 1969, E. Horak (Holotype PDD no. 27084, isotype ZT no. 68/138). Supplementary description of type by Horak (1990).

≡ *Camarophyllus apricosus* (E. Horak) E. Horak 1990: 278.

Hygrocybe araucana Singer, Beihefte zur Nova Hedwigia 29: 11. 1969.

Holotype: Chile, Valdivia, Cordillera Pelada, Mirador, 5 May 1965, R. Singer M-5516 (BAFC).

Hygrocybe arcohastata A.M. Young, Muelleria 14: 57. 2000.

Holotype: Australia, Victoria, Warrandyte State park, 24 May 1996, B.A. Fuhrer 2064 (MEL 2063201).

Hygrocybe arechavaletii (Speg.) Singer, Beihefte zur Sydowia 7: 7. 1973.

Basionym: *Omphalina arechavaletii* Speg, Anales del museo nacional de historia natural de Buenos Aires 24: 168. 1913.

Holotype: Uruguay, near Montevideo, May 1898, Cl.J.J. Arechavaleta (LPS no. 16803).

Hygrocybe arenicola Murrill (as "*Hydrocybe arenicola*"), Mycologia 4: 208. 1912.

Holotype: USA, Oregon, Newport, 13 Nov. 1911, W.A. Murrill 1049 (NY).

≡ *Hygrophorus arenicolus* (Murrill) Murrill 1912b: 217.

= *Hygrophorus hypothejus* (Fr.) Fr. (Murrill 1916a, Hesler & Smith 1963).

Hygrocybe arnoldae Murrill (as "*Hydrocybe arnoldae*"), Lloydia 7: 304. 1944.

Holotype: USA, Florida, Sugarfoot Hammock near Gainesville, 11 July 1938, L. Arnold, E. West & W.A. Murrill F-17809 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus arnoldae* (Murrill) Murrill 1944: 326.

Hygrocybe astatogala (R. Heim ex R. Heim) Heinem., Flore Iconographique des champignons du Congo. Fasc. 15: Hygrophoraceæ, Laccaria et Boletineæ (complément): 283. 1966.

Basionym: *Bertrandia astatogala* R. Heim ex R. Heim, Revue de Mycologie 31: 155. 1966.

Syntypes: Madagascar, two collections quoted: near d'Antanambé 20-21 Dec. 1934, R. Heim no. J. 5 and Montagne d'Ambre near Cascade des Rousettes 25. Jan. 1935 R. Heim no. L. 47 (PC). However, they apparently are lost and lectotype: Madagascar, 1938, R. Decary (PC), designated and described by Horak (1968 and pers. comm.).

≡ *Bertrandia astatogala* Heim 1936: 224, invalidly published (no Latin diagnosis, Art. 36.1).

Hygrocybe astatogala var. *laeticolor* Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 437. 1963.

Holotype: Zaire, Distr. Forestier Central, Binga, M. Goossens-Fontana 912 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe atropuncta (Pers.: Fr.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 134. 1969. See *Camarophyllopsis atropuncta* p. 73.

Hygrocybe atosquamosa Pegler, Agaric Flora of the Lesser Antilles: 53. 1983.

Holotype: Martinique, Vallée de la Rivière Lorrain, Bois Duhautment, 11 Sept. 1977, J.P. Fiard 932A (K).

Hygrocybe aurantia Murrill (as "*Hydrocybe aurantia*"), Mycologia 3: 195. 1911.

Holotype: Jamaica, Morce's Gab, 29-30 Dec. 1908 / 2 Jan. 1909, W.A. & E.L. Murrill 743 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus aurantius* (Murrill) Murrill 1912b: 332, *Hygrocybe aurantia* (Murrill) K. Natarajan & K.B. Purushothama 1987: 75 superfluous combination.

Hygrocybe aurantiocampanula A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 952. 1997.

Holotype: Australia, Queensland, Bunya Mountains National Park, 20 May 1989, A.M. Young (BRIP no. 22525).

Hygrocybe aurantiolutescens P.D. Orton, Notes from the Royal Botanic Garden Edinburgh 29: 103. 1969.

Type: UK, England, Cornwall, Rock, 18 Sept. 1965, P.D. Orton, (holotype K, isotype E). Isotype studied by Arnolds (1986d).

= *Hygrocybe acutoconica* (Clem.) Singer s.l. (Boertmann 1995).

Hygrocybe aurantiolutescens var. *parapersistens* Bon, Documents mycologiques 19 (75): 55. 1989.

Holotype: France, M. Bon 82360 (herb. M. Bon).

Hygrocybe aurantiolutescens forma *pseudoconica* Bon, Documents mycologiques 6 (24): 42. 1976.

Holotype: France, near Ault, M. Bon (herb. M. Bon 81068-B).

≡ *Hygrocybe aurantiolutescens* var. *subconica* Bon 1989a: 55 (nomen novum).

Hygrocybe aurantiolutescens var. *subconica* Bon, Documents mycologique 19 (75): 55, 1989 (nomen novum).

Replaced synonym: *Hygrocybe aurantiolutescens* forma *pseudoconica* Bon, Documents mycologiques 6 (24): 42. 1976.

Holotype: France, near Ault, M. Bon (herb. M. Bon 81068-B).

Note: It remains obscure why Bon (1989a) changed the name, rather than just a status change, as there seems to be no obstacles for this action.

Hygrocybe aurantiopallens (E. Horak) A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 921. 1997.

Basionym: *Camarophyllus aurantiopallens* E. Horak, Beihefte zur Nova Hedwigia 43: 122. 1973.

Type: New Zealand, Nelson, Lake Rotoiti, Westbay, 29 Apr. 1968, E. Horak (holotype PDD no. 27088, isotype ZT no. 68/309). Supplementary type description by Horak (1990).

Hygrocybe aurantiorufa A. Pearson ex Pegler, Kew Bulletin 51: 788. 1996.

Holotype: South Africa, Western Cape, Cape Peninsula, Glencairn Valley below Brakklouf Nek, 7 Aug. 1949, Stephens 748 (PREM).

Hygrocybe aurantiosplendens R. Haller Aar., Schweizerische Zeitschrift für Pilzkunde 32: 89. 1954.

Type: Not designated. Protologue based on material from Switzerland. Voucher material (BAS), should be designated as lectotype.

≡ *Godfrinia aurantiosplendens* (R. Haller Aar.) Herink 1958: 65 invalidly published (no basionym, Art. 33.3), *Hygrophorus aurantiosplendens* (R. Haller Aar.) P.D. Orton 1960: 176.

Hygrocybe aurantiosplendens forma luteosplendens Bon, Fungorum rariorum icones coloratae XI: 8. 1979.

Holotype: France, M. Bon no. 751029 (herb. M. Bon).

Hygrocybe aurantiviscida Arnolds, Ecology and coenology of macrofungi in grasslands and moist heathlands in Drenthe, the Netherlands 2: 384. 1982.

Holotype: The Netherlands, Overijssel, near Lankhorst along the rivulet Reest, 7 Oct. 1975, E. Arnolds 3435 (previously WBS now WAG).

= *Hygrocybe glutinipes* (J.E. Lange) R. Haller Aar. (Boertmann 1995).

Hygrocybe aurantipes A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 954. 1997.

Holotype: Australia, New South Wales, Gore Park, 17 June 1990, R. Kearney & B. Rees (UNSW no. 90/208).

Hygrocybe austrolutea A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 934. 1997.

Holotype: Australia, Queensland, Blackbutt, 4 Apr. 1989, A.M. Young (BRIP no. 22521).

Hygrocybe austropratensis A.M. Young, Austrobaileya 5: 546. 1999.

Type: Australia, New South Wales, Lane Cove Bushland Park, 7 June 1998, R. & E. Kearney (holotype DAR no. 73916, isotype BRI).

Hygrocybe avellana (Beeli) Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 427. 1963.

Basionym: *Clitocybe avellana* Beeli, Bulletin de la société royale de botanique de Belgique 66: 22. 1933.

Holotype: Zaire, Distr. Forestier Central, Binga, Apr. 1928, M. Goossens-Fontana 690 (BR). Studied by Heinemann (1963, 1966).

Hygrocybe badioclavata A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 956. 1997.

Holotype: Australia, Queensland, Blackbutt, 6 Mar. 1988, A.M. Young (BRIP no. 22518).

Hygrocybe bagleyi A.M. Young, Australasian Mycologist 19 (3): 97. 2001 ("2000").

Holotype: Australia, Queensland, Binna Burra, 7 May 2000, A.M. Young no. 2289, (BRI).

Hygrocybe batesii A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 956. 1997.

Holotype: Australia, New South Wales, Monga State Forest, 16 May 1984, A.E. Wood & N.B. Gartrell (UNSW no. 84/522).

= *Hygrocybe graminicolor* (E. Horak) T.E. May & A.E. Wood (Young 1999).

Hygrocybe batistae Singer, Atas do instituto de micologia 2: 20. 1965.

Holotype: Brazil, Pernambuco, Recife, Dois Irmãos, no date, S.J. da Silva (LIL).

Hygrocybe bella (Massee) Murrill (as "*Hydrocybe bella*"), Mycologia 3: 197. 1911.

Basionym: *Hygrophorus bellus* Massee, Journal of Botany, British and foreign 30: 161. 1892.

Holotype: St Vincent, Nariaqua Valley, W.R. Elliot, material probably lost (Pegler 1983) and only illustration in protologue (plate 321 figs 1-4) extant.

= Probably *Hygrocybe firma* (Berk. & Broome) Singer (Pegler & Fiard 1978, Pegler 1983).

Note: Non *Camarophyllus bellus* (Pers.: Fr.) P. Karst.

Hygrocybe berkeleyi (P.D. Orton) ex P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969 (nomen novum, Art. 58.1).

Replaced synonym: *Hygrophorus berkeleyi* P.D. Orton, illegitimate name, Transactions. The British Mycological Society 43: 259. 1960.

Type: UK, England, Devon, Membury, 3 Nov. 1956, P.D. Orton (K).

≡ *Camarophyllus berkeleyanus* Clemençon 1982: 55, *Hygrocybe ortonii* Bon 1983a: 27, superfluous (see p. 96), *Cuphophyllus berkeleyi* (P.D. Orton & Watling) Bon 1984b: 10, *Hygrophorus ortonii* (Bon) ex Dennis 1986: 48.

= *Hygrophorus pratensis* var. *pallida*, *Hygrocybe pratensis* var. *pallida* (Cooke) Arnolds, *Cuphophyllus pratensis* var. *pallidus* (Cooke) Bon.

Note: Non *Hygrophorus berkeleyi* (Berk. & Broome) Sacc. (1887).

Hygrocybe biminiata Kühner, Bulletin de la Société Mycologique de France 92: 462. 1976 (description in French p. 490).

Holotype: Norway, Finse, 8 Aug. 1972, R. Kühner 72-24 (herb. R. Kühner).

= *Hygrocybe substrangulata* (P.D. Orton) P.D. Orton & Watling (Boertmann 1995).

Hygrocybe blanda E. Horak, New Zealand Journal of Botany 28: 261. 1990.

Holotype: New Zealand, North Auckland, Little Barrier Island, near summit of Mt Hauturu, 12 June 1981, E. Horak (PDD no. 27185).

Hygrocybe blestiana Singer, Beihefte zur Nova Hedwigia 29: 18. 1969.

Holotype: Argentina, Lago Nahuel Huapí, Brazo Blest, 23 Mar. 1963, R. Singer M-3139 (SGO).

Hygrocybe bolensis A.M. Young, Muelleria 13:18. 2000.

Type: Australia, New South Wales, Bola Creek, Royal National Park, 15 June 1998, A.M. Young 2125, (holotype DAR 73954, isotype BRI).

Hygrocybe borealis (Peck) Bon, in Bon & Chevassut: Documents mycologiques 3 (9): 8. 1973.

Basionym: *Hygrophorus borealis* Peck, Twenty-sixth annual report of the New York State Museum of Natural History: 64. 1874.

Syntypes: USA, New York State, Croghan and Copake, Sept. and Oct., C.H. Peck (NYS). Studied by Hesler & Smith (1963).

≡ *Camarophyllus borealis* (Peck) Murrill 1916a: 385, *Cuphophyllus borealis* (Peck) Bon 1984b: 10 invalidly published (wrong basionym quoted, Art 33.1).

= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling (Arnolds 1986a), *Omphalina tepeitensis* Murrill (Dennis 1953a, Hesler & Smith 1963).

Hygrocybe borealis forma salmonea (Coker) Bon, Documents mycologiques 9 (35): 44, 1979.

Basionym: *Hygrophorus borealis forma salmoneus* Coker, Journal of the Elisha Mitchell Scientific Society 64: 137. 1948.

Holotype: USA, North Carolina, Chapel Hill, 13 Nov. 1919, W.C. Coker 3745, herb. not indicated. Studied by Hesler & Smith (1963).

≡ *Hygrocybe borealis forma salmonea* (Coker) Bon 1976b: 21 invalidly published (no basionym, Art. 33.3).

Hygrocybe boriviliensis B.D. Sharma, S.D. Deshp. & S.G. Pradhan, Bulletin of the Botanical Survey of India 28: 171. 1986.

Holotype: India, Bombay, Borivili National Park, 22 Aug. 1985, B.D. Sharma 169123 (BSI).

Hygrocybe brevispora F.H. Møller, Fungi of The Færoes: 142. 1945.

Holotype: Faeroe Islands, Streymoy, Vestmannahavn, Aug. 14 1938, F.H. Møller (C).

≡ *Godfrinia brevispora* (F.H. Møller) Herink 1958: 65 invalidly published (no basionym, Art. 33.3), *Hygrophorus brevisporus* (F.H. Møller) P.D. Orton 1960: 176.

= *Hygrocybe citrinovirens* (J.E. Lange) Jul. Schäff., *Hygrocybe cystidiata* Arnolds.

Hygrocybe brunnea (Cleland) C.A. Grgurinovic, Larger fungi of South Australia: 334. 1997.

Basionym: *Cantharellus brunneus* Cleland, Transactions and Proceedings of the Royal Society of South Australia 51: 302. 1927.

Lectotype: Selected from several syntypes (Grgurinovic 1997): Australia, South Australia, MacDonnell Bay, 29 May 1925, J.B. Cleland (AD 3372).

≡ *Hygrophorus brunneus* (Cleland) G. Stev. 1963: 382.

Hygrocybe brunneosquamosa Lodge & S.A. Cantrell in Cantrell & Lodge: Mycological Research 105: 217. 2001.

Holotype: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., El Verde Research Area, trail to Rio Sonadora, 20 May 1993, D.J. Lodge, M. Boyd & L. Fish (CFMR PR no. 1155).

Hygrocybe bubalinoviscida A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 959. 1997.

Holotype: Australia, New South Wales, Mt Tomah, 4 Feb. 1980, A. Young (BRIP 22516).

Hygrocybe caespitosa Murrill (as “*Hydrocybe caespitosa*”), *Mycologia* 6: 2. 1914.

Holotype: USA, New York State, east of Bronx Park, 26 Sept. 1909, W.A. Murrill (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus caespitosus* (Murrill) Murrill 1914: 2, *Camarophyllus caespitosus* (Murrill) Murrill 1916a: 387.

Hygrocybe calciphila Arnolds, *Persoonia* 12: 475. 1985b.

Holotype: The Netherlands, Utrecht, Vleuten, de Bijleveld, 14 Oct. 1976, C. Bas 7101 (L).

≡ *Pseudohygrocybe calciphila* (Arnolds) Kovalenko 1988: 208.

= *Hygrocybe calcarum* Gröger nomen nudum.

Hygrocybe calciphila var. *microspora* (Kühner) Bon, *Documents mycologiques* 19 (75): 56. 1989.

Basionym: *Hygrocybe miniata* var. *microspora* Kühner, *Bulletin de la Société Mycologique de France* 92: 462. 1976 (description in French p. 487).

Holotype: France, Vanoise, near Pralognan, Chemin de la Pêche à Montaimont, 23 Sept. 1971, R. Kühner 71-175 (herb. R. Kühner).

Hygrocybe californica Murrill (as “*Hydrocybe californica*”), *North American Flora* 9: 382. 1916.

Holotype: USA, California, Berkeley, 20 Jan. 1914, L.S. Smith 413 (NY).

≡ *Hygrophorus californicus* (Murrill) Murrill 1917: 40.

= *Hygrocybe acutoconica* (Clem.) Singer (Hesler & Smith 1963).

Hygrocybe calyptriformis (Berk. & Broome) Fayod, *Annales des sciences naturelles, septième séries. Botanique* 9: 309. 1889.

Basionym: *Hygrophorus calyptriformis* Berk. & Broome, in Berkeley: *Outlines of British Fungology*: 202. 1860.

Type: Not designated. Protologue based on material from UK, England.

≡ *Godfrinia calyptriformis* (Berk. & Broome) Herink 1958: 65 invalidly published (no basionym, Art. 33.3).

Hygrocybe calyptriformis forma *nivea* (Cooke) Bon, *Documents mycologiques* 19 (75): 55. 1989.

Basionym: *Hygrophorus calyptriformis* var. *niveus* Cooke, *Illustrations of British Fungi*, pl. 923 (917). 1888 (description in *Handbook of British Fungi*: 303. 1889).

Type: UK, England, Kew, Queens Cottage Grounds. Not preserved.

Notes: When Bon (1989a) transferred the epithet to *Hygrocybe*, he forgot to indicate that this action also was a change of status from var. to forma (stat. nov.).

Hygrocybe calyptriformis var. *domingensis* Lodge & S.A. Cantrell in Cantrell & Lodge: *Mycological Research* 104: 876. 2000.

Type: Dominican Republic, Prov. La Vega, Valle Nuevo, 21 Nov. 1997, E. Horak (holotype ZT, isotypes CFMR, JBSD).

Hygrocybe campinaranae Singer, Fieldiana, Botany N.S. 21: 4. 1989.

Holotype: Brazil, Amazonas, along road Manaus-Caracarai km 125, 22 May 1978, R. Singer B-11022 (INPA).

Hygrocybe cana (E. Horak). Boertm. comb. nov.

Basionym: *Camarophyllus canus* E. Horak, Beihefte zur Nova Hedwigia 43: 120. 1973.

Type: New Zealand, Southland, Denton Range, Te Anau, 30 Mar. 1969, E. Horak (holotype PDD no. 27073, isotype ZT no. 69/199). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe canescens (A.H. Smith & Hesler) P.D. Orton, Notes from the Royal Botanic Garden Edinburgh 44: 489. 1987.

Basionym: *Hygrophorus canescens* A.H. Smith & Hesler, Lloydia 5: 10. 1942.

Holotype: USA, North Carolina, Great Smoky Mts. National Park, Newfound Gap, 11 Aug. 1938, A.H. Smith 10031 (MICH).

≡ *Cuphophyllus canescens* (A.H. Smith & Hesler) Bon 1990b: 40, *Cuphophyllus canescens* (A.H. Smith & Hesler) Bon 1990c: 62, superfluous combination.

Hygrocybe cantharellus (Schwein.: Fr) Murrill (as "*Hydrocybe cantharellus*"), Mycologia 3: 196. 1911.

Basionym: *Agaricus cantharellus* Schwein.: Fr., Schriften der Naturforschenden Gesellschaft zu Leipzig 1: 88. 1822 (sanctioned in Index Alphabeticus: 11. 1832).

Type: Not designated. Protologue based on material from USA, North Carolina.

≡ *Hygrophorus cantharellus* (Schwein.: Fr.) Fr. 1836-1838: 329, *Hygrophorus miniatus* var. *cantharellus* (Schwein.: Fr.) Kauffman (as *H. "cantherellus"*) 1918: 195, *Camarophyllus cantharellus* (Schwein.: Fr.) Murrill 1916a: 388, *Pseudohygrocybe cantharellus* (Schwein.: Fr.) Kovalenko 1988: 208.

= *Hygrocybe lepida* Arnolds.

Hygrocybe cantharellus forma sphagnicola (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91, 1982.

Basionym: *Hygrophorus cantharellus forma sphagnicola* Hongo, Journal of Japanese Botany 33: 99, 1958.

Holotype: Japan, Shiga, Ôtsu-city, Ishiyama-Hiratsu-chô, 26 Sept. 1956, T. Hongo (herb. T. Hongo).

Hygrocybe cavipes E. Horak, Beihefte zur Nova Hedwigia 43: 139. 1973.

Type: New Zealand, Nelson, Puponga, 17 May 1968, E. Horak (holotype PDD no. 27082, isotype ZT no. 68/472). Supplementary type description by Horak (1990).

Note: Non *Hygrophorus cavipes* Dennis & Reid.

- Hygrocybe ceracea* (Fr.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.
Basionym: *Agaricus ceraceus* Fr.: Fr., Systema mycologicum 1: 102. 1821.
Holotype: Not designated. Protologue based on material from Sweden. Neotype (Arnolds 1986d): The Netherlands, Gelderland, Wilp, 10 Nov. 1973, E. Arnolds 3095 (previously WBS now WAG).
≡ *Hygrophorus ceraceus* (Fr.: Fr.) Fr. 1836-1838: 330, *Godfrinia ceracea* (Fr.: Fr.) Maire 1902: 123, *Pseudohygrocybe ceracea* (Fr.: Fr.) Kovalenko 1988: 208.
= *Hygrocybe subceracea* Murrill (Arnolds 1986d), *Hygrocybe vitellinoides* Bon (Arnolds 1986d).
Notes: Author often indicated as (Wulfen: Fr), see however Arnolds (1986d).
- Hygrocybe ceracea forma rubella* (Bon) Bon, Documents mycologiques 18 (69): 35, 1987.
Basionym: *Hygrocybe vitellinoides forma rubella* Bon, Documents mycologiques 9 (35): 39, 1979.
Holotype: France, Pas de Calais, Wimereux, M. Bon 741022, herb. not indicated.
- Hygrocybe cerasinomutata* A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 936. 1997.
Holotype: Australia, New South Wales, Mt Wilson, 21 Mar. 1982, A.M. Young (BRIP 22517).
- Hygrocybe cerinolutea* E. Horak, Beihefte zur Nova Hedwigia 43: 145. 1973.
Type: New Zealand, Westland, Totara Flat, Granville Forest, 4 Apr. 1968, E. Horak (holotype PDD no. 27083, isotype ZT no. 68/262). Supplementary type description by Horak (1990).
- Hygrocybe cheilocystidiata* Courtec., Cryptogamie - Mycologie 10: 209. 1989.
Holotype: French Guyana, Arataye, near Saut Pararé, 9 Mar. 1988, R. Courtecuisse RC/GF88.593 (PC).
- Hygrocybe cheelii* A.M. Young, Austrobaileya 5: 547. 1999 (nomen novum).
Replaced synonym: *Cantharellus lilacinus* Cleland & Cheel, Transactions and proceedings of the Royal Society of South Australia 43: 271. 1919.
Holotype: Australia, New South Wales, Sydney, Gladesville, 17 June 1916 (AD 3418). Studied by Grgurinovic (1997).
≡ *Camarophyllus lilacinus* (Cleland & Cheel) E. Horak 1990: 303.
Note: Non *Hygrocybe lilacina* (C. Laest. ex P. Karst.) M.M. Moser.
- Hygrocybe chilensis* Singer, Beihefte zur Nova Hedwigia 29: 18. 1969.
Holotype: Chile, Llanquihue, Peulla, 20 Mar. 1959, R. Singer M-1916 (SGO).
- Hygrocybe chimaeroderma* S.A. Cantrell & Lodge, Mycological Research 104: 873. 2000.
Holotype: Puerto Rico, Mun. Naguabo, Rio Prieto Dam, Caribbean National Forest, 19 June 1997, S.A. Cantrell, V. Cuevas & C. Laboy (CFMR no. PR 4563).

Hygrocybe chloochlora Pegler & Fiard, Kew Bulletin 32: 303. 1978.

Holotype: Martinique, Absalon, Nov. 1974, J.P. Fiard 168 (K). Supplementary type description by Pegler (1983).

Hygrocybe chloroides (Malançon) Kovalenko, Ordo Hygrophorales: 73. 1989.

Basionym: *Hygrophorus conicus* var. *chloroides* Malançon, Champignon Supérieurs du Maroc II: 494. 1975.

Holotype: Morocco, G. Malençon no. 1562 (herb. G. Malençon, perhaps in MPU).

≡ *Hygrocybe conica* var. *chloroides* (Malançon) Bon 1985a: 5, *Hygrocybe conica* var. *chloroides* (Malaçon) Arnolds 1985b: 476 superfluous combination.

Hygrocybe chlorophana (Fr.: Fr.) Wünche, Die Pilze: 112. 1877.

Basionym: *Agaricus chlorophanus* Fr.: Fr, Systema mycologicum 1: 103.1821.

Type: Not designated. Protologue based on material from Sweden.

≡ *Hygrophorus chlorophanus* (Fr.: Fr.) Fr. 1836-1838: 332, *Godfrinia chlorophana* (Fr.: Fr.) Herink 1958: 69.

= *Hygrocybe euroflavescens* Kühner.

Hygrocybe chlorophana var. *aurantiaca* Bon, Documents mycologiques 6 (24): 42. 1976.

Holotype: France, Somme, Regnières-ecluse, near Abbeville, 22 Sept. 1970, M. Bon, (herb. M. Bon 70653).

Hygrocybe chromolimonea (G. Stev.) T.W. May & A.E. Wood (as *H. "chromolimonia"*), Mycotaxon 54: 148. 1995.

Basionym: *Hygrophorus chromolimoneus* G. Stev., Kew Bulletin 16: 383. 1963.

Holotype: New Zealand, Nelson, Lake Rotoiti, 16 May 1956, E. Kidson (G. Stevenson 1088) (K). Studied by Horak (1990) and Young & Wood (1997).

≡ *Gliophorus chromolimoneus* (G. Stev.) E. Horak 1973: 167.

Hygrocybe chromoxantha A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 965. 1997.

Holotype: Australia, New South Wales, Wauchope, 16 July 1984, A.E. Wood (UNSW 84/693).

Hygrocybe cinerascens (Berk. & Broome) Pegler, A preliminary Agaric flora of East Africa: 50. 1977.

Basionym: *Hygrophorus cinerascens* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 562. 1871.

Holotype: Sri Lanka, Central Prov., July 1869, Thwaites 1198 (K). Studied by Pegler (1986).

Note: Epithet spelled "*cinerescens*" by Saccardo (1887).

Hygrocybe cinerea (Fr.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus pratensis* **H. cinereus* Fr., Hymenomycetes Europaei: 413. 1874.

Type: Not designated. Protologue based on material from Sweden.

≡ *Camarophyllus cinereus* (Fr.) P. Karst. 1879: 226, *Cuphophyllus cinereus* (Fr.) Bon 1984b: 11 (the incorrect protologue quoted, see notes), *Cuphophyllus cinereus* (Fr.) Bon 1985b: 38 superfluous combination (Art. 33.4).

= *Agaricus pratensis* β. *Ag. cinereus* Pers. 1801: 304, *Hygrocybe lacmus* (Schumach.) P.D. Orton & Watling (Rald & Boertmann 1988).

Notes: Orton & Watling (1969) quote the protologue as Sveriges ätliga svampar, plate 30, 1860-1866. This publication does however, not mention the name. According to Art. 33.4 such bibliographic error does not invalidate the combination. Non *Hygrophorus cinereus* Berk. & Broome (1871a), nec *Hygrophorus cinereus* Velen. (1920) illegitimate name.

Hygrocybe cinereifolia Courtec. & Priou, in Courtecuisse: Documents mycologiques 22 (86): 69. 1992.

Holotype: France, Dordogne, La Jemaye, 1 Nov. 1991, R. Courtecuisse (herb. Courtecuisse F91.272).

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. s.l. (Boertmann 1995).

Hygrocybe cinerella (Kühner) Arnolds, Persoonia 13: 386. 1987.

Basionym: *Camarophyllus cinerellus* Kühner., Bulletin de la Société Mycologique de France 93: 144. 1977 (description in French p. 139).

Holotype: Sweden, Abisko, Slattatjåkko, 14 Aug. 1972, R. Kühner 72-127 (herb. R. Kühner).

≡ *Cuphophyllus cinerellus* (Kühner) Bon 1984b: 10.

Hygrocybe cinereofirma Lodge, S.A. Cantrell & Baroni in Cantrell & Lodge: Mycological Research 105: 218. 2001.

Holotype: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., Tradewinds Trail, 28 June 1996, T.J. Baroni (CFMR PR no. 3355).

Hygrocybe citrina (Rea) J.E. Lange, Flora Agaricina Danica V, appendix: 4. 1940.

Basionym: *Hygrophorus citrinus* Rea., Transactions. The British Mycological Society 3: 228. 1910.

Holotype: UK, England, Derby, near Grindleford, 27 Sept. 1909, Mrs. C. Rea. Only illustration (plate 11) in protologue and original (K) extant.

≡ *Godfrinia citrina* (Rea) Herink 1958: 66 invalidly published (no basionym, Art. 33.3), *Gliophorus citrinus* (Rea) Kovalenko 1989: 88.

Hygrocybe citrinofusca (J. Favre) Bon, Documents mycologiques 6 (24): 42. 1976.

Basionym: *Hygrophorus citrinofuscus* J. Favre, Ergebnisse der wissenschaftlichen Untersuchungen des schweizerischen Nationalparks 6 (n.f.): 586 (description in French p. 383). 1960.

Holotype: Switzerland, Clairière, au-desus de l'hotel Waldhaus à Vulpèra, no date, herbarium not indicated.
= Perhaps *Hygrocybe spadicea*.

Hygrocybe citrinopallida (A.H. Smith & Hesler) Kobayasi, in Kobayasi et al.: Bulletin of the National Science Museum, Tokyo 14: 62. 1971.

Basionym: *Hygrophorus citrinopallidus* A.H. Smith & Hesler, Sydowia 8: 327. 1954.

Holotype: USA, Washington, Mt Rainier National Park, Gobler's Knob, 12 Oct. 1952, A.H. Smith 40851 (MICH).

≡ *Cuphophyllus citrinopallidus* (A.H. Smith & Hesler) Bon 1991b: 56.

Hygrocybe citrinovirens (J.E. Lange) Jul. Schäff., Berichte der Bayerischen Botanischen Gesellschaft 27: 223. 1947.

Basionym: *Camarophyllus citrinovirens* J.E. Lange, Dansk Botanisk Arkiv 4 (4): 20. 1923.

Holotype: Denmark, Fyn, Åfæste near Årup, Oct. 1900. Only illustration in protologue (plate 1 fig. g and plate 2 fig. *Camarophyllus* 10) and original (C) extant.

≡ *Godfrinia citrinovirens* Herink (1958): 65 invalidly published (no basionym, Art. 33.3), *Hygrophorus citrinovirens* (J.E. Lange) P.D. Orton 1960: 253 invalidly published (no basionym, Art. 33.3).

= *Hygrocybe brevispora* F.H. Møller, *Hygrocybe cystidiata* Arnolds.

Hygrocybe clivalis (Fr.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus fornicatus* * *H. clivalis* Fr., Hygrophori Sueciae: 14. 1851.

Type: Not designated. Protologue based on material from Sweden, Lassby Backar near Uppsala.

≡ *Hygrocybe fornicata* var. *clivalis* (Fr.) Bon 1989a: 56, *Camarophyllus clivalis* (Fr.) P. Karst. 1879: 227.

Notes: Sometimes spelled "*clivialis*" (e.g. Arnolds 1986d). Protologue usually quoted as: Monographia hymenomycetum Sueciae 2: 135. 1863.

Hygrocybe coccinea (Schaeff.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.

Basionym: *Agaricus coccineus* Schaeff., Fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones nativis coloribus expressae tomus quartus et ultimus: 70, plate 302. 1774 (sanctioned in Systema mycologicum 1: 105. 1821).

Type: Not designated. Protologue based on material from Germany, Bayern.

≡ *Hygrophorus coccineus* (Schaeff.: Fr.) Fr. 1836-1838: 330, *Pseudohygrocybe coccinea* (Schaeff.: Fr.) Kovalenko 1988: 208.

Hygrocybe coccinea var. *gracilis* Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 451. 1963.

Holotype: Zaire, Distr. Forestier Central, Yangambi, île Esali, J. Louis 15743 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe coccinea var. *umbonata* Herink, Acta Musei Bohemiae septentr. Liberecensis 1: 77. 1958.

Syntypes: Czech Republic, Mnichovo Hradiště, Velká Horka, 26 Aug. 1956, J. Herink 310/56 and Aug.-Sept. 1957, J. Herink 488/57 (herb. J. Herink).

≡ *Hygrophorus coccineus* var. *umbonatus* (Herink) Largent 1985b: 62.

Note: Herink quote the specific name as *Hygrocybe coccinea* (Schaeff. : Fr.) P. Karst.

Hygrocybe coccinella (Ehrenb.) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 308. 1889.

Basionym: *Agaricus coccinellus* Ehrenb., Sylvae mycologicae Berolinensis: 31. 1818.

Type: Not designated. Protologue based on material from Germany, Berlin.

≡ *Hygrophorus coccinellus* (Ehrenb.) Sacc. (1891): 55.

= *Hygrocybe miniata* (Fr.: Fr.) P. Kumm. (Fries 1836, 1874).

Hygrocybe coccineocrenata (P.D. Orton) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. Aufl.: 68. 1967.

Basionym: *Hygrophorus coccineocrenatus* P.D. Orton, Transactions. The British Mycological Society 43: 262. 1960.

Holotype: UK, England, Dorset, Studland Bay, 30 June 1953, T.J. Wallace (K).

≡ *Pseudohygrocybe coccineocrenata* (P.D. Orton) Kovalenko (1988): 209.

Hygrocybe coccineocrenata forma *ambigua* Kühner, Bulletin de la Société Mycologique de France 92: 463 (in French p. 495). 1976.

Holotype: France, Vanoise, à Bellecombe, au dessus de Termignon, 30 Aug. 1973, R. Kühner 73-339 (herb. R. Kühner).

= *Hygrocybe coccineocrenata* var. *sphagnophila* (Peck) Arnolds (Arnolds 1986d), *Hygrocybe substrangulata* (P.D. Orton) P.D. Orton & Watling (Boertmann 1995, Borgen & Senn-Irlett 1995).

Hygrocybe coccineocrenata var. *sphagnophila* (Peck) Arnolds, Persoonia 12: 475. 1985.

Basionym: *Hygrophorus miniatus* var. *sphagnophilus* Peck, New York State Museum. 53d annual report of the regents 1899: 856. 1901.

Holotype: USA, New York State, Kasoag Marsh, July, C.H. Peck (NYS).

≡ *Hygrophorus miniatus* forma *sphagnophilus* (Peck) Hongo 1952: 160, *Hygrophorus turundus* forma *sphagnophilus* (Peck) A.H. Smith & Hesler 1954: 324, *Hygrophorus turundus* var. *sphagnophilus* (Peck) Hesler & A.H. Smith 1963: 145, *Hygrocybe turunda* var. *sphagnophila* (Peck) Bon 1976b: 18 invalidly published (no basionym, Art. 33.3), *Hygrocybe turunda* var. *sphagnophila* (Peck) Bon 1979a: 44.

= *Hygrocybe coccineocrenata* forma *ambigua* Kühner (Arnolds 1986d), *Hygrocybe substrangulata* (P.D. Orton) P.D. Orton & Watling (Borgen & Senn-Irlett 1995).

Hygrocybe colemanniana (A. Bloxam) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus colemannianus* A. Bloxam., in Berk. & Broome: Annals and magazine of natural history. Second series 13: 403. 1854.

Holotype: UK, England, Warwickshire, Twycross, A. Bloxam (K).

≡ *Camarophyllus colemannianus* (A. Bloxam) Ricken 1920: 197, *Cuphophyllus colemannianus* (A. Bloxam) Bon 1984b: 10.

Hygrocybe conica (Schaeff.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 111. 1871.

Basionym: *Agaricus conicus* Schaeff., Fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones nativis coloribus expressae tomus quartus et ultimus: 2. 1774 (sanctioned in Systema mycologicum: 103. 1821).

Type: Not designated. Protologue, with illustration (plate 2), based on material from Germany, Bayern.

≡ *Hygrophorus conicus* (Schaeff.: Fr.) Fr. 1836-1838: 331, *Godfrinia conica* (Schaeff.: Fr.) Maire 1902: 117.

= *Agaricus tristis* Pers. (Arnolds 1986d), *Hygrocybe pseudoconica* J. E. Lange, *Hygrocybe riparia* Kreisel, *Hygrocybe veselskyi* Singer & Kuthan, *Hygrocybe cinereifolia* Courtec. & Priou, *Hygrocybe conica* var. *chloroides* (Malançon) Bon, *Hygrocybe conica* var. *conicopalustris* (R. Haller Aar) ex Arnolds, *Hygrocybe conica* var. *minor* Monthoux & Röllin, *Hygrophorus conicus forma carbonarius* Hongo.

Note: The author are often referred to as (Scop. : Fr.), however see Arnolds (1986d) and Gams & Kuyper (1995), why the name should be typified by Schaeffers name.

Hygrocybe conica var. *brevispora* (Dennis) S.A. Cantrell & Lodge, Mycological Research 104: 876. 2000.

Basionym: *Hygrophorus nigrescens* var. *brevisporus* Dennis, Kew Bulletin 15: 69. 1961.

Holotype: Venezuela, Mariposa near Caracas, 26 June 1958, Aristeguieta in R.W.G. Dennis 1077 (K).

≡ *Hygrocybe nigrescens* var. *brevispora* (Dennis) Pegler 1983: 53, *Hygrocybe nigrescens* var. *brevispora* (Dennis) Raitelh. 1992: 38 invalidly published (no basionym, Art. 33.3) and superfluous.

Hygrocybe conica var. *conicopalustris* R. Haller Aar. ex Arnolds, Persoonia 13: 143. 1986.

Holotype: Switzerland, Kanton Aargau, near Mellingen, Flachmoor bei Vogelrüti, R. Haller, June-Aug. 1953 (ZT).

≡ *Hygrocybe conicopalustris* R. Haller Aar. 1953: 141 invalidly published (alternative name, Art. 34.2), *Hygrocybe conica* var. *conicopalustris* (R. Haller Aar.) Heinem. 1966: 432 invalidly published (Art. 32.1), *Hygrophorus conicus* var. *conicopalustris* (R. Haller Aar.) Arnolds 1974a: 103 invalidly published (Art. 32.1), *Hygrocybe conicopalustris* R. Haller Aar. ex Bon 1985b: 38 invalidly

published (Art. 32.1, 33.2, 36.1, Arnolds 1986d), *Hygrocybe riparia* var. *conicopalustris* (Bon) Bon 1989a: 55 invalidly published (Art. 32.1).

Notes: The names *Hygrophorus conicopalustris* R. Haller Aar. and *Hygrocybe conicopalustris* R. Haller Aar. were published simultaneously (alternative names, Art. 34.2).

Hygrocybe conica var. *minor* Monthoux & Röllin, Candollea 48: 260. 1993.

Holotype: Switzerland, Canton de Genève, Commune de Cartigny, Bord du Rhône aval du barrage de Verbois, 5. Nov. 1977, O. Röllin no. 77064 (G no. K-18517).

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. s.l. (Boertmann 1995).

Hygrocybe conica var. *nigrocapillata* C. Martin, Bulletin des Travaux de la Société Botanique de Genève. Section de la Société suisse de Botanique IX: 70. 1899.

Type: Not designated. Protologue based on material from Switzerland.

Hygrocybe conica var. *pallidipes* Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 433. 1963.

Holotype: Zaire, Distr. de lacs Édouard et Kivu, Bukavu, contreforts du Mt Kahuzi, M. Goossens-Fontana 5313 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe conica var. *peradenyca* (Sacc.) Pegler, Agaric flora of Sri Lanka: 57. 1986.

Basionym: *Hygrophorus conicus* var. *peradenyca* Sacc., Sylloge Fungorum 5: 418. 1887.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, Nov. 1868, Thwaites 813 (K). Studied by Pegler (1986).

Hygrocybe conica var. *tierneyi* A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 936. 1997.

Holotype: Australia, Queensland, Blackbutt, 25 Feb. 1990, A.M. Young (BRIP 22524).

Hygrocybe conicoides (P.D. Orton) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus conicoides* P.D. Orton, Transactions. The British Mycological Society 43: 262. 1960.

Holotype: UK, England, Somerset, Bossington, 31 Oct. 1957, P.D. Orton (K).

≡ *Hygrophorus conicus* var. *conicoides* (P.D. Orton) Arnolds 1974a: 103, *Hygrocybe conica* var. *conicoides* (P.D. Orton) Boertm. 1995: 162.

Hygrocybe conspicua E. Horak, Beihefte zur Nova Hedwigia 43: 133. 1973.

Type: New Zealand, Westland, Lake Hochstetter, 12 Mar. 1968, E. Horak (holotype PDD no. 27079, isotype ZT no. 68/141). Supplementary type description by Horak (1990).

≡ *Humidicutis conspicua* (E. Horak) E. Horak 1990: 295.

Hygrocybe constans Murrill (as “*Hydrocybe constans*”), *Mycologia* 4: 208. 1912.

Holotype: USA, Oregon, Mill City, 9 Nov. 1911, W.A. Murrill 814 (NY). A few comments on the type given by Smith & Hesler (1942) and Hesler & Smith (1963).

≡ *Hygrophorus constans* (Murrill) Murrill 1912a: 217.

= *Hygrocybe miniata* (Fr.: Fr.) P. Kumm. (Hesler & Smith 1963).

Hygrocybe constrictospora Arnolds, *Persoonia* 12: 476. 1985b.

Holotype: The Netherlands, Noord-Brabant, Drunen, Drogelens Kanaal, 26 Oct. 1975, E. Arnolds 3486 (previously WBS now WAG).

≡ *Pseudohygrocybe constrictospora* (Arnolds) Kovalenko 1988: 208.

Note: *Hygrocybe strangulata* (P.D. Orton) Svrček ss. Arnolds.

Hygrocybe corsica Candusso, *Revista di Micologia* 39: 16. 1996.

Holotype: France, Corsica, near Cauro, M.T Basso & M. Candusso, 10 Nov. 1995 (LUG F-8024).

Hygrocybe cortinata Heinem., *Bulletin du jardin botanique de l'état. Bruxelles* 33: 434. 1963.

Holotype: Zaire, Distr. Forestier Central, Binga, M. Goossens-Fontana 2062 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe cremicolor Murrill (as “*Hydrocybe cremicolor*”), *Mycologia* 4: 209. 1912.

Holotype: USA, Washington, Seattle, 20 Oct.-1 Nov. 1911, W.A. Murrill 568 (NY). Studied by Singer in Smith & Hesler (1942) and by Hesler & Smith (1963).

≡ *Hygrophorus cremicolor* (Murrill) Murrill 1912a: 217, *Camarophyllus cremicolor* (Murrill) Murrill 1916a: 389.

Hygrocybe crocea (Bull.) Singer, *Annales Mycologici* 41: 10. 1943.

Basionym: *Agaricus croceus* Bull., *Herbier de la France*: Plate 50. 1781.

Type: Not designated. Protologue based on material from France.

≡ *Hygrophorus croceus* (Bull.) Bres. 1928: 348, *Godfrinia crocea* (Bull.) Herink 1958: 65 invalidly published (no basionym, Art. 33.3).

= *Hygrocybe acutoconica* (Clem.) Singer.

Notes: Even though Singer (1943b) (also Moser (1953) and Candusso (1997)) erroneously quote Bresadola as author of the protologue, the combination into *Hygrocybe* is validly published (Art. 33.4). Bon (1990a) quote the name as *Hygrocybe crocea* (Bull.) P. Karst.

Hygrocybe croceolutea (Hongo) Hongo, *Memoirs of the Faculty of Education Shiga University. Natural Science* 32: 91. 1982.

Basionym: *Hygrophorus croceoluteus* Hongo, *Memoirs of the Faculty of Education Shiga University. Natural Science* 20: 50. 1970.

Holotype: Japan, Shiga, Ôtsu-city, Ôishi-Tomikawa, 24 Nov. 1968, T. Hongo 3849 (herb. T. Hongo).

Hygrocybe cruenta (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus cruentus* Hongo, Journal of Japanese Botany 33: 134. 1958.

Holotype: Japan, Shiga, Ôtsu-city, Ishiyama-Hiratsu-chô, 15 May 1957, T. Hongo (herb. T. Hongo).

≡ *Pseudohygrocybe cruenta* (Hongo) Kovalenko 1988: 208.

Hygrocybe cuspidata (Peck) Murrill (as "*Hydrocybe cuspidata*"), North American Flora 9: 379. 1916.

Basionym: *Hygrophorus cuspidatus* Peck, Bulletin of the Torrey Botanical Club 24: 141. 1897.

Holotype: Canada, Ontario, Ottawa, Sept., J. Macoun (NYS).

≡ *Hygrophorus acutoconicus* var. *cuspidatus* (Peck) Arnolds 1974a: 103, *Hygrocybe persistens* var. *cuspidata* (Peck) Arnolds 1986d: 143.

Notes: In the protologue it is clearly stated that the fungus turns black in drying (Peck 1897). This seems to have been overlooked by later authors (e.g. Hesler & Smith 1963, Arnolds 1986d), who consequently treat this taxon as closely related to *Hygrocybe acutoconica* (Clem.) Singer and not to *Hygrocybe conica* s.l.

Hygrocybe cystidiata Arnolds, Persoonia 13: 143. 1986.

Holotype: Switzerland, Teufenthal, 9 July 1953, R. Haller (herb. E. Horak 63/350).

= *Hygrocybe citrinovirens* (J.E. Lange) Jul. Schäff. (Boertmann 1995).

Hygrocybe cystidiorubra A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 941. 1997.

Holotype: Australia, Queensland, Blackbutt, 4 Apr. 1989, A.M. Young (BRIP 22522).

Hygrocybe czuica Singer, Annales Mycologici 41: 10. 1943.

Type: Not designated. Protologue based on material from Russia, Altai Region, Chuiski Alpi collected in August.

≡ *Tricholoma czuica* (Singer) Singer 1951a: 224, *Humidicutis czuica* (Singer) Singer 1962a: 200 invalidly published (no basionym, Art. 33.3).

Hygrocybe davisii (Peck) Murrill (as "*Hydrocybe davisii*"), North American Flora 9: 382. 1916.

Basionym: *Hygrophorus davisii* Peck, Bulletin of the Torrey Botanical Club 33: 214. 1906.

Holotype: USA, Massachusetts, Stow, Aug. 1905, S. Davis (NYS). Studied by Hesler & Smith (1963).

= *Hygrocybe laeta* (Pers.: Fr.) P. Kumm. (Hesler & Smith 1963).

Hygrocybe dennisiana (Singer) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 137. 1969. See *Camarophyllopsis dennisiana* p. 74.

Hygrocybe dimorpha (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 61. 1986.

Basionym: *Agaricus dimorphus* Berk. & Br., The Journal of the Linnean Society. Botany 11: 517. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, Nov. 1868, Thwaites 830 (K). Studied by Pegler (1986).

≡ *Hygrophorus dimorphus* (Berk. & Broome) Petch 1917: 325, *Clitocybe dimorpha* (Berk. & Broome) Sacc. 1887: 169.

Hygrocybe discolor (Kalchbr. & MacOwan) Reid, Contributions from the Bolus herbarium 7: 121. 1975.

Basionym: *Hygrophorus discolor* Kalchbr. & MacOwan in Kalchbrenner: Grevillea 9: 134. 1881.

Holotype: South Africa, Eastern Cape, Western Region, Somerset East, MacOwan 1231 (K).

Hygrocybe distans (Berk.) Bon & Chevassut, Documents mycologiques 3 (9): 5. 1973.

Basionym: *Hygrophorus distans* Berk., Outlines of British Fungology: 200. 1860.

Holotype: UK, England, King's Cliffe, 30 June 1859 (K).

= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling (Dennis et al. 1960, Arnolds 1985a, Henrici 1996).

Hygrocybe diversicolor (Petch) Pegler, Agaric flora of Sri Lanka: 67. 1986.

Basionym: *Hygrophorus diversicolor* Petch, Annals of the Royal Botanic Garden Peradeniya 7: 280. 1922.

Holotype: Sri Lanka, Western Prov., Colombo Distr., Henaratgoda, July 1917, Petch 5226 (K). Studied by Pegler (1986).

Hygrocybe dorothei A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 965. 1997.

Holotype: Australia, Australian Capital Territory, Jervis Bay, National Park, 7 May 1994, J. Simpson & C. Grgurinovic (CBG 9404401).

Hygrocybe dromedensis A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 965. 1997.

Holotype: Australia, New South Wales, Mt Dromedary, 17 May 1984, A.E. Wood & N.B. Gartrell (UNSW 84/559).

Hygrocybe earlei Murrill (as "*Hydrocybe earlei*"), Mycologia 3: 196. 1911.

Holotype: Cuba, Herradura, Santiago de las Vegas, 16 June 1907, F.S. Earle 562 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus earlei* (Murrill) Murrill 1912b: 332.

Hygrocybe elegans E. Horak, Beihefte zur Nova Hedwigia 43: 153. 1973.

Type: New Zealand, Westland, Okarito Trig, 19 Feb. 1969, E. Horak (holotype PDD no. 27086, isotype ZT no. 69/96). Supplementary type description by Horak (1990).

Note: Non *Hygrophorus elegans* Killerm.

Hygrocybe elegantissima (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 58. 1986.

Basionym: *Hygrophorus elegantissimus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 565. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Jan. 1869, Thwaites 865 (K). Studied by Pegler (1986).

Note: According to Pegler (1986) the holotype was collected Dec. 1868.

Hygrocybe emeticolor Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 449. 1963.

Holotype: Zaire, Distr. Forestier Central, Binga, Apr. 1928, M. Goossens-Fontana 689 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe erinacea (Pat.) Singer, Sydowia 12: 225. 1959 "1958".

Basionym: *Hygrophorus erinaceus* Pat., Bulletin de la Société Mycologique de France 25: 10. 1909.

Type: Vietnam, Dangkia, Dalat, Aug./Sept. 1907, M. Eberhardt (FH).

Hygrocybe erinensis (Dennis) R. Valenzuela, G. Guzman & J. Castillo, Boletín de la sociedad Mexicana de micología 15: 75. 1981.

Basionym: *Hygrophorus erinensis* Dennis, Kew Bulletin 8: 262. 1953.

Holotype: Trinidad, Erin Savanna, no date, R.W.G. Dennis 302 (K). Studied by Hesler & Smith (1963).

Hygrocybe erythrocala A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 970. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 27 Mar 1993, A.E. Wood (UNSW 93/7).

Hygrocybe erythrocrenata A.K. Mills & A. Monks, Mycotaxon 46: 87. 1993.

Holotype: Australia, Tasmania, Moonlight Ridge, Aug. 1989, A. Monks (HO 131196).

Hygrocybe euroflavescens Kühner, Bulletin de la Société Mycologique de France 92: 463. 1976 (description in French vol. 93: 78. 1977).

Holotype: France, Region lyonnaise, Les Echarmeaux, 29 Sept. 1960, R. Kühner 60-75 (herb. R. Kühner).

= *Hygrocybe chlorophana* (Fr.: Fr.) Wünsche (Boertmann 1995).

Hygrocybe fibula (Bull.: Fr.) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 309. 1889.

Basionym: *Agaricus fibula* Bull., Herbar de la France: plate 186. 1783 (sanctioned in *Systema mycologicum* 1: 163. 1821).

Type: Not designated. Protologue based on material from France.

≡ *Omphalia fibula* (Bull.: Fr.) P. Kumm. 1871a: 106, *Omphalina fibula* (Bull.: Fr.) Quéf. 1886: 46, *Mycena fibula* (Bull.: Fr.) Kühner 1938: 607, *Hemimycena fibula* (Bull.: Fr.) Singer 1943b: 123, *Marasmiellus fibula* (Bull.: Fr.) Singer 1948: 32, *Gerronema fibula* (Bull.: Fr.) Singer 1961b: 13, *Rickenella fibula* (Bull.: Fr.) Raitelh. 1973: 67.

Hygrocybe firma (Berk. & Broome) Singer, Sydowia 11: 355. 1957.

Basionym: *Hygrophorus firmus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 563. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Jan. 1869, Thwaites 880 (K no. 61329). Studied by Pegler (1986) and Cantrell & Lodge (2001).

= *Hygrophorus alutaceus* Berk. & Broome (Pegler 1986), probably *Hygrocybe bella* (Masse) Murrill (Pegler & Fiard 1978, Pegler 1986).

Hygrocybe flammans (Berk.) A.M Young, Australian Systematic Botany 10: 1022. 1997.

Basionym: *Hygrophorus flammans* Berk., The Journal of the Linnean Society. Botany 13: 160. 1873.

Holotype: Australia, Victoria, Mount Aberdeen, no date, F. v. Mueller 117 (Berkeley 1632) (K). Studied by Pegler (1965) and Young & Wood (1997).

Note: Non *Hygrophorus flammeus* (Scop.) J. Schroet. (as *H. "flammans"*).

Hygrocybe flammea (Scop.) Murrill (as "*Hydrocybe flammea*"), North American Flora 9: 381. 1916.

Basionym: *Agaricus flammeus* Scop., Flora Carniolica 2 (ed. 2): 443. 1772.

Type: Not designated. Protologue based on material from Slovenia.

≡ *Hygrophorus flammeus* (Scop.) J. Schroet. (as *H. "flammans"*) 1889: 528.

= *Hygrocybe miniata* (Fr.: Fr.) P. Kumm. (Hesler & Smith 1963).

Hygrocybe flava (Boertm.) F. Rune, Pupiit-Fungi of Greenland, Plate 2. 2000.

Basionym: *Hygrocybe laeta* var. *flava* Boertm., The genus *Hygrocybe*: 86. 1995.

Holotype: Sweden: Medelpad, Borgsjö, Hembygdsgården, 31 Aug. 1987, E. Rald (C).

Hygrocybe flavescens (Kauffman) Singer, Lilloa 22: 154. 1951 "1949".

Basionym: *Hygrophorus puniceus* var. *flavescens* Kauffman, Eighth Report of the Michigan Academy of Science: 34. 1906.

Holotype: USA, Michigan, Emmet Co., Aug. 1905, C.H. Kauffman, herb. not indicated, but type studied by Hesler & Smith (1963).

≡ *Hygrophorus flavescens* (Kauffman) A.H. Smith & Hesler 1942: 60, *Godfrinia flavescens* (Kauffman) Herink 1958: 66 invalidly published (no basionym, Art. 33.3).

Hygrocybe flavifolia (A.H. Smith & Hesler) Singer, Lilloa 22: 154. 1951 “1949”.

Basionym: *Hygrophorus flavifolius* A.H. Smith & Hesler, Lloydia 5: 72. 1942.

Holotype: USA, California, Orick, Prairie Creek State Park, 28 Nov. 1937, A.H. Smith 9164 (MICH).

Hygrocybe flavipes (Britzelm.) Bon, Documents mycologiques 14 (53): 6. 1984.

Basionym: *Hygrophorus flavipes* Britzelm., Hymenomyceten aus Südbayern VIII. teil: 10. 1891.

Type: Not designated. Protologue, with illustration (plate 448 no. 69) based on material from Germany, Bayern, near Augsburg.

≡ *Camarophyllus flavipes* (Britzelm.) Cléménçon 1982: 55, *Cuphophyllus flavipes* (Britzelm.) Bon 1984b: 11, *Hygrocybe flavipes* (Britzelm.) Arnolds 1989: 43 superfluous combination.

= Probably *Hygrophorus flavonitens* A. Blytt, *Hygrocybe lacmus* (Schumach.) P.D. Orton & Watling (Krieglsteiner 2000), *Hygrocybe radiata* Arnolds (Krieglsteiner 2000).

Hygrocybe flavocampanulata S.A. Cantrell & Lodge, Mycological Research 105: 218. 2001.

Holotype: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., Palo Hueco, 13 Apr. 1998, S.A. Cantrell & C. Laboy (CFMR PR no. 4828).

Hygrocybe flavolutea Murrill (as “*Hydrocybe flavolutea*”), Mycologia 3: 196. 1911.

Holotype: Jamaica, Cinchona, 25 Dec. 1908 - 8 Jan. 1909, W.A. & E.L. Murrill 527 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus flavoluteus* (Murrill) Murrill: 1912b: 332, *Hygrocybe flavolutea* (Murrill) Pegler 1997: 6 superfluous combination.

Hygrocybe foetens (W. Phillips) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 134. 1969. See *Camarophyllopsis foetens* p. 74.

Hygrocybe foliirubens Murrill (as “*Hydrocybe foliirubens*”), Mycologia 33: 440. 1941.

Holotype: USA, Florida, Gainesville, 8 June 1938, W.A. Murrill F-16432 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus foliirubens* (Murrill) Murrill 1941: 448, *Hygrocybe conica* var. *foliirubens* (Murrill) Heinem. 1963: 432.

Hygrocybe fornicata (Fr.) Singer, Lilloa 22: 152. 1951 “1949”.

Basionym: *Hygrophorus fornicatus* Fr., Epicrisis systematis mycologici seu synopsis hymenomycetum: 327. 1836-1838.

Type: Not designated. Protologue based on material from Europe.

≡ *Camarophyllus fornicatus* (Fr.) P. Karst. 1879: 227, *Neohygrocybe fornicata* (Fr.) Herink 1958: 71 invalidly published (no basionym, Art. 33.3), *Neohygrocybe fornicata* (Fr.) Kovalenko 1989: 39.

= *Hygrocybe streptopus* (Fr.) Bon, *Hygrocybe clivalis* (Fr.) P.D. Orton.

Hygrocybe fragilis (Batsch: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.

Basionym: *Agaricus fragilis* Batsch, Elenchi fungorum, continuato secunda: No. 215. 1789 (sanctioned in *Systema mycologicum* 1: 269. 1821).

Type: Germany, Forst (near Weimar ?), 28 Sept, 1788, A.J.G.C Batsch. Probably not preserved.

Note: This is probably not a *Hygrocybe*.

Hygrocybe fuhreri A.M. Young, *Muelleria* 14: 58. 2000.

Holotype: Australia, Victoria, Warrandyte State park, 23 May 1996, B.A. Fuhrer 2054 (MEL 2063199).

Hygrocybe fuliginata E. Horak, *Beihefte zur Nova Hedwigia* 43: 136. 1973.

Type: New Zealand, Southland, Te Anau, Denton Range, 30 Mar. 1969, E. Horak (holotype PDD no. 27080, isotype ZT no. 68/198).

Hygrocybe fuligineosquamosa (Cleland) C.A. Grgurinovic, *Larger fungi of South Australia*: 335. 1997.

Basionym: *Hygrophorus fuligineosquamosus* Cleland, *Transactions and Proceedings of the Royal Society of South Australia* 57: 187. 1933.

Neotype (Grgurinovic 1997): Australia, South Australia, Mt Lofty, 12 June 1943, J.B. Cleland (AD 5705). Studied by Young & Wood (1997).

Hygrocybe fulva (Berk.) Manjula, *Proceedings of the Indian academy of science (Plant Science)* 92: 97. 1983.

Basionym: *Hygrophorus fulvus* Berk., *Hooker's Journal of Botany and Kew Garden Miscellany* 4: 134. 1852.

Holotype: Sikkim, J.D. Hooker 23 (K). Studied by Manjula (1983).

Hygrocybe fumosogrisea (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus fumosogriseus* E. Horak, *New Zealand Journal of Botany* 28: 286. 1990.

Holotype: New Zealand, Westland, Copland River Valley, Karangarua, 7 Mar. 1983, E. Horak (PDD no. 27229).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe fuscescens (Bres.) P.D. Orton & Watling, *Notes from the Royal Botanic Garden Edinburgh* 29: 132. 1969.

Basionym: *Hygrophorus niveus* var. *fuscescens* Bres., *Iconographia Mycologica* 7: plate 330. 1928.

Type: Not designated. Protologue based on material from Italy, Trento. No material in S (K. Jaederfeldt pers. comm.).

≡ *Hygrophorus fuscescens* (Bres.) Kühner & Romagn. 1953: 54 invalidly published (no basionym Art. 33.3), *Camarophyllus fuscescens* (Bres.) M.M. Moser 1967: 62, *Cuphophyllus fuscescens* (Bres.) Bon 1984b: 11, *Hygrocybe nivea* var. *fuscescens* (Bres.) Arnolds 1985b: 477, *Hygrocybe virginea* var. *fuscescens* (Bres.) Arnolds 1986d: 146, *Camarophyllus virgineus* var. *fuscescens* (Bres.) M. Beisenherz in Habler & Beisenherz 1998: 99.

Hygrocybe fuscoaurantiaca (G. Stev.) E. Horak, New Zealand Journal of Botany 9: 424. 1971.

Basionym: *Hygrophorus fuscoaurantiacus* G. Stev., Kew Bulletin 16: 381. 1963.

Holotype: New Zealand, Wellington, Keith George Park, 15 June 1949, G. Stevenson 645 (K).

Hygrocybe glacialis Borgen & Senn-Irlet, Documents mycologiques 25 (98-100): 93. 1995.

Holotype: Switzerland, Berne, Guttannen: Oberaar, 24 Aug. 1983, B. Senn-Irlet no. 83/605 (C).

Hygrocybe glauconitens (Fr.: Fr.) P. Karst. (as “*Hydrocybe glauconitens*”), Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 238. 1879 (nomen novum).

Replaced synonym: *Agaricus glauconitens* Fr.: Fr. superfluous name, Systema mycologicum 1: 511. 1821.

Type: Germany, Forst (near Weimar ?), 10 Oct. 1788, A.J.G.C. Batsch, plate 33 fig. 192 in Batsch (1789).

≡ *Dermoloma nitens* (Batsch: Fr.) Raitelh. 1979: 52, *Dermoloma glauconitens* (Fr.: Fr.) ex Bon 1986: 51 superfluous name.

= *Dermoloma cuneifolium* (Fr.: Fr.) Bon (Arnolds 1993).

Notes: The name change (Fries 1821) from *Agaricus nitens* Batsch: Fr. to *Agaricus glauconitens* Fr.: Fr. is superfluous (Gams & Kuyper 1984).

Hygrocybe glutinipes (J.E. Lange) R. Haller Aar., Schweizerische Zeitschrift für Pilzkunde 34: 179. 1956.

Basionym: *Hygrocybe citrina* var. *glutinipes* J.E. Lange, Flora Agaricina Danica V, appendix: 4 (description in English p. 26). 1940.

Syntypes: Kolding and Skive, 1918-1920, J.E. Lange. Only illustration (plate 167 fig. E) in protologue and original (C) extant. However without indication of which of the syntypes it represents. Epitype here designated: Denmark: Jylland, Vejle, Munkebjerg, 22 Aug. 1940, J.E. Lange (C). Studied by Boertmann (1995).

≡ *Hygrophorus glutinipes* (J.E. Lange) P.D. Orton 1960: 176, *Gliophorus glutinipes* (J.E. Lange) Kovalenko 1988: 209.

= *Hygrocybe aurantioviscida* Arnolds.

Note: My designation of a neotype (Boertmann 1995) is erroneous (Art. 9.6).

Hygrocybe glutinipes var. *rubra* Bon, Agarica 4 (8): 74. 1983.

Holotype: Norway, near Frederiksstad (Østfold), 5 and 7 Aug. 1980, R. Kristiansen no. 3380 (herb. R. Kristiansen).

Hygrocybe gomez-millasii Lazo, Mycologia 64: 793. 1972.

Holotype: Chile, Colchagua Prov., Pumanque, near La Viñita, 8 Aug. 1967, W Lazo PU-144 (NY).

Hygrocybe graminicolor (E. Horak) T.E. May & A.E. Wood (as *H. “gramminicolor”*), Mycotaxon 54: 148. 1995.

Basionym: *Gliophorus graminicolor* E. Horak, Beihefte zur Nova Hedwigia 43: 176. 1973.

Type: New Zealand, Westland, Ngahere, Red Jack Valley, 21 Mar. 1968, E. Horak (holotype PDD no. 27096, isotype ZT no. 68/201). Supplementary type description by Horak (1990).

= *Gliophorus pallidus* E. Horak (Young 1999).

Hygrocybe griseopallida Arnolds, Persoonia 12: 476. 1985.

Holotype: The Netherlands, Amsterdam, Amsterdamse Bos, 6 Nov. 1971, E. Kits v. Waveren (L). = *Camarophyllus nebularis* Clemençon nomen nudum (Arnolds 1986b), *Hemimycena mairei* (M.E. Gilbert) Singer (Arnolds 1986b).

Hygrocybe guyanensis Courtec., Cryptogamie - Mycologie 10: 195. 1989.

Holotype: French Guyana, Arataye, near Saut Pararé, 1 Mar. 1988, R. Courtecuisse RC/GF88.399 (PC).

Hygrocybe hahashimensis (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus hahashimensis* Hongo, Reports of the Tottori mycological institute 16: 60. 1978.

Holotype: Japan, Bonin Islands, Hahajima, Kuwanokiyama, 29 Nov. 1977, T. Hongo B247 (TNS).

Hygrocybe hapuuae Desjardin & Hemmes, Mycologia 89: 626. 1997.

Type: USA, Hawai'i, Natural Area Reserve System, Pu'u Maka'ala, 7 June 1994, D.E. Hemmes 463 (holotype SFSU, isotype BISH).

Hygrocybe hayi A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 976. 1997.

Holotype: Australia, Queensland, Blackbutt, 2 May 1988, A.M. Young (BRIP no. 22520).

Hygrocybe helicodes A.M. Young, Muelleria 13: 29. 2000.

Holotype: Australia, New South Wales, Hazelbrook, 12 May 1998, A.M. Young 2086, (DAR no. 73953).

Hygrocybe helobia (Arnolds) Bon, Documents mycologiques 6 (24): 43. 1976.

Basionym: *Hygrophorus helobius* Arnolds, Persoonia 8: 99. 1974.

Holotype: The Netherlands, Zegveld, De Meye, 18 Aug. 1970, E. Arnolds 511 (L). ≡ *Pseudohygrocybe helobia* (Arnolds) Kovalenko 1988: 209.

Hygrocybe helvolofirma Pegler, Agaric Flora of the Lesser Antilles: 70. 1983.

Holotype: Dominica, Gros Bois, St. Andrew, 6 Nov. 1977, J.P. Fiard 1062a (K no. 50478). A few comments to type given by Cantrell & Lodge (2001).

Hygrocybe hololeuca Singer, Fieldiana, Botany N.S. 21: 4. 1989.

Holotype: Brazil, Amazonas, 30 km north of Manaus (Embrapa), 17 May 1977, R. Singer B-9639 (INPA).

Hygrocybe holoxantha E. Horak, Flora Criptogámica de Tierra del Fuego, Tomo 11, fasc. 6: 60. 1979.

Type: Argentina, Tierra del Fuego, Ushuaia, Ensenada, Pampa Alta, Gaiotti, 16 Mar. 1975, E. Horak (holotype LPS no. 37850, isotype ZT).

Hygrocybe hondurensis Murrill (as “*Hydrocybe hondurensis*”), Mycologia 3: 197. 1911.

Holotype: Belize (British Honduras), 1906, M.E. Peck (NY). Studied by Smith & Hesler (1942) and Hesler & Smith (1963).

≡ *Hygrophorus hondurensis* (Murrill) Murrill 1912b: 332.

= Perhaps *Hygrocybe siparia* (Berk.) Singer (Dennis 1953a).

Hygrocybe huronensis (A.H. Smith & Hesler) Singer, Lilloa 22: 153. 1951 “1949”.

Basionym: *Hygrophorus huronensis* A.H. Smith & Hesler, Lloydia 5: 59. 1942.

Holotype: USA, Michigan, Ann Arbor, along the Huron River, 15 Sept. 1940, A.H. Smith 15376 (MICH).

Hygrocybe hygrocyboides (Kühner) Arnolds, Persoonia 13: 386. 1987.

Basionym: *Camarophyllus hygrocyboides* Kühner, Bulletin de la Société Mycologique de France 93: 144. 1977 (description in French p. 122).

Holotype: France, Vanoise, near Pralognan, entra Cirque du Génépy et le col du Génépy, 14 Sept. 1969, R. Kühner 69-319 (herb. R. Kühner).

≡ *Cuphophyllus hygrocyboides* (Kühner) Bon 1984b: 12.

Hygrocybe hymenocephala (A.H. Smith & Hesler) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 134. 1969. See *Camarophyllopsis hymenocephala* p. 74.

Hygrocybe hypohaemacta (Corner) Pegler, in Pegler & Fiard: Kew Bulletin 32: 299. 1978.

Basionym: *Hygrophorus hypohaemactus* Corner, Transactions. The British Mycological Society 20: 180. 1936.

Syntypes: Singapore, Gardens Jungle, and Malaysia, Pahang, Tembeling. Pegler and Fiard (1978) give more information on the former: 28 Oct. 1929, E.J.H. Corner (herb. E.J.H. Corner, and isosyntype at E).

Hygrocybe hypohaemacta var. *boninensis* (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus hypohaemactus* var. *boninensis* Hongo, Reports of the Tottori mycological institute 18: 149. 1980.

Holotype: Japan, Bonin Islands, Hahajima, Kuwanokiyama, 29 Nov. 1977, Y. Doi B248 (TNS).

Hygrocybe hypospoda A.M. Young, Muelleria 13: 23. 2000.

Type: Australia, Victoria, Wilsons Promontory, 23 May 1998, AM. Young 2051 (holotype MEL no. 2056603, isotype BRI).

Hygrocybe ignipileata Pegler, Agaric Flora of the Lesser Antilles: 62. 1983.

Holotype: Martinique, Bouliki, 14 July 1976, J.P. Fiard 727A (K).

Hygrocybe immutabilis (Peck) Murrill (as “*Hydrocybe immutabilis*”), North American Flora 9: 382. 1916.

Basionym: *Hygrophorus immutabilis* Peck, New York State Museum. Fifty-first annual report of the regents 1897: 292. 1899.

Holotype: USA, New York State, Essex Co., Raybrook, Aug. 1897, C.H. Peck (NYS). Studied by Smith & Hesler (1942) and Hesler & Smith (1963).

Hygrocybe impura (E. Horak) Boertm. comb. nov.

Basionym: *Camarophyllus impurus* E. Horak, New Zealand Journal of Botany 28: 276. 1990.

Holotype: New Zealand, North Auckland, Waitakere Ranges, Mill Bay, 29 June 1981, E. Horak (PDD no. 27226).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe inaequalis (Velen.) Petrak, Index of Fungi 1936-1939. 1950: 44.

Basionym: *Hygrophorus inaequalis* Velen., Novitates Mycologicae: 23. 1939.

Type: Not designated. Protologue based on material from Czech Republic, near Mnichovice. No material in PRC or PRM (J. Holec pers. comm.).

Hygrocybe incolor Pegler, Agaric Flora of the Lesser Antilles: 56. 1983.

Holotype: Martinique, Morne Montaubin, Fonds St. Denis, 25 Sept. 1977, D. Pegler 2845 (K).

Hygrocybe ingrata J.P. Jensen & F.H. Møller, in F.H. Møller: Fungi of the Færoes: 136. 1945.

Holotype: Denmark, Sjælland, Jægersborg Dyrehave, 29 Sept. 1943, J.P. Jensen (C).
≡ *Neohygrocybe ingrata* (J.P. Jensen & F.H. Møller) Herink 1958: 74.

Hygrocybe ingrata forma minor F.H. Møller, Fungi of the Færoes: 137. 1945.

Holotype: Faeroe Islands, Vágur, Miðvágur, 8 Aug. 1938, F.H. Møller (C, at least a sporeprint).

Hygrocybe innata (E. Horak) Boertm. comb. nov.

Basionym: *Neohygrocybe innata* E. Horak, Beihefte zur Nova Hedwigia 43: 126. 1973.

Type: New Zealand, Westland, Ngahere, Red Jack Valley, 21 Mar. 1968, E. Horak, (holotype PDD no. 27076, isotype ZT no. 68/199). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe insipida (J.E. Lange) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. aufl.: 65. 1967.

Basionym: *Hygrocybe reai* var. *insipida* J.E. Lange, Dansk Botanisk Arkiv 4 (4): 26. 1923.

Holotype: Denmark, Fyn, Broholm near Tommerup, Oct. 1917, J.E. Lange. Only illustration (plate 1 fig. h) in protologue and original (C) extant. Epitype here designated: Denmark, Frederikshavn, 26 Sept. 1984, D. Boertmann 84132 (C).

≡ *Hygrophorus insipidus* (J.E. Lange) S. Lundell in S. Lundell & Nannf. 1956 nr. 2331, *Gliophorus insipidus* (J.E. Lange) Herink 1958: 82 invalidly published (no basionym, Art. 33.3), *Gliophorus insipidus* (J.E. Lange) Kovalenko 1988: 209.

Note: The above selected epitype was erroneously designated as a neotype by myself (Boertmann 1995).

Hygrocybe insipida var. *subcantharellus* Bon & B. Lefebvre, Documents mycologiques 30 (119): 21. 2000.

Holotype: France, Somme, Somme, parc du Mémorial de Terre Neuve (MEN 2407-C), 30 Oct. - 6 Nov. 1999, B. Lefebvre (LIP no. MB-991031).

Hygrocybe intermedia (Pass.) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 309. 1889.

Basionym: *Hygrophorus intermedius* Pass., Nuovo giornale botanico Italiano 4: 103. 1872.

Type: Not designated. Protologue based on material from Italy, Parma, Vallisnera collected in June.

≡ *Pseudohygrocybe intermedia* (Pass.) Kovalenko 1988: 208.

Hygrocybe iropus A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 976. 1997.

Holotype: Australia, Queensland, Bunya Mountains National Park, 4 June 1989, A.M. Young (BRIP no. 22526).

Hygrocybe irrigata (Pers.: Fr.) Bon, Documents mycologiques 6 (24): 41. 1976.

Basionym: *Agaricus irrigatus* Pers., Synopsis methodica fungorum 2: 361. 1801 (sanctioned in Systema mycologicum 1: 101. 1821).

Type: Not designated. Protologue based on material from Europe.

≡ *Hygrophorus irrigatus* (Pers.: Fr.) Fr. (as *H. "irriguus"*) 1836-1838: 329, *Camarophyllus irrigatus* (Pers.: Fr.) P. Kumm. 1871:118, *Hygrocybe irrigata* (Pers.: Fr.) M.M. Moser 1955: 45 invalidly published (no basionym, Art. 33.3).

= *Hygrocybe unguinosa* (Fr.: Fr.) P. Karst.

Hygrocybe julietae (G. Stev.) E. Horak, New Zealand Journal of Botany 9: 431. 1971.

Basionym: *Hygrophorus julietae* G. Stev., Kew Bulletin 16: 377. 1963.

Holotype: New Zealand, Wellington, Botanic Garden, 1 July 1949, G. Stevenson 697 (K). Studied by Horak (1990).

Hygrocybe kandora C.A. Grgurinovic & A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 945. 1997.

Holotype: Australia, South Australia, Mt Burr Forest, 30 May 1928, J.B. Cleland (AD no. 5715).

Note: *Hygrocybe coccinea* (Schaeff.: Fr.) P. Kumm. ss. Cleland (1934).

Hygrocybe keithgeorgei (G. Stev.) E. Horak, New Zealand journal of botany 9: 431. 1971.

Basionym: *Hygrophorus keithgeorgei* G. Stev., Kew Bulletin 16: 378. 1963.

Holotype: New Zealand, Wellington, Keith George Park, 15 June 1949, Stevenson 648 (K). Studied by Horak (1973, 1990).

≡ *Hygrocybe keithgeorgei* (G. Stev.) E. Horak 1973: 140 superfluous combination.

Note: Horak (1990) quote collection year for holotype as 1948.

Hygrocybe konradii R. Haller Aar., Schweizerische Zeitschrift für Pilzkunde 33: 172. 1955.

Type: Not designated. Protologue based on material from Switzerland. Voucher material (BAS), should be designated as lectotype.

≡ *Hygrophorus konradii* (R. Haller Aar.) P.D. Orton 1960: 176.

= *Hygrocybe subglobispora* (P.D. Orton) M.M. Moser (Boertmann 1995).

Hygrocybe konradii forma albidifolia Bon, Documents mycologiques 18 (72): 63, 1988.

Holotype: France, Somme, Limeux, 15 Nov. 1987, M. Bon (herb. M. Bon 87218).

Hygrocybe konradii var. antillana Lodge & S.A. Cantrell in Cantrell & Lodge, Mycological Research 104: 877. 2000.

Holotype: Puerto Rico, Mun. Rio Grande, Caimitillo Trail, Caribbean National Forest, 16 June 1997, D.J. Lodge (CFMR PR no. 4555).

Hygrocybe konradii forma bispora Bon & B. Lefebvre Documents mycologiques 30 (119): 23. 2000.

Holotype: France, Somme, Èclusier-Vaux (MEN 2408-D), Aug. 1982, B. Lefebvre (LIP no. MB-82053).

Hygrocybe konradii var. pseudopersistens Bon, Documents mycologiques 8 (30): 69. 1978.

Holotype: France, Somme, near Amiens, M. Bon (herb. M. Bon 75102903).

≡ *Hygrocybe konradii forma pseudopersistens* (Bon) Arnolds 1985b: 476.

Hygrocybe kouskosii, A.M. Young, Australasian Mycologist 19 (3): 98. 2001 ("2000").

Holotype: Australia, Queensland, Lamington National Park, 26 May 1997, A.M. Young no. 1945, (BRI).

Hygrocybe kula C.A. Grgurinovic, Larger Fungi of South Australia: 336. 1997.
Holotype: Australia, New South Wales, Royal National Park, 15 July 1916, J.B. Cleland (AD 5716). Studied by Young & Wood (1997) and Young (2001a).

Hygrocybe laboyi S.A. Cantrell & Lodge, Mycological Research 105: 220. 2001.
Holotype: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., Palo Hueco, east of Rio Esperitu Santo, 1 July 1998, S.A. Cantrell, C. Laboy & R. Negrón (CFMR PR no. 4870).

Hygrocybe lacmus (Schumach.) P.D. Orton & Watling (as *H. "lacma"*), Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Agaricus lacmus* Schumach., Enumeratio plantarum in partibus Sælandiæ septemtrionalis et orientalis. 2: 333. 1803.

Type: Denmark, Sjælland, Birkerød, Oct. Only original painting (C) extant. This was later published as plate 1731 fig. 1 in Hornemann (1821).

≡ *Hygrophorus subradiatus* * *H. lacmus* (Schumach.) Fr. 1836-1838: 329, *Hygrophorus lacmus* (Schumach.) Kalchbr. 1873-1877: 42, *Hygrophorus subradiatus* var. *lacmus* (Schumach.) Quél. 1888: 259, *Camarophyllus lacmus* (Schumach.) J.E. Lange 1938: 96, *Cuphophyllus lacmus* (Schumach.) Bon 1984b: 11.

= *Hygrocybe cinerea* (Fr.) P.D. Orton & Watling (Rald & Boertmann 1988), *Hygrocybe flavipes* (Britzelm.) Bon (Krieglsteiner 2000), *Hygrocybe radiata* Arnolds (Krieglsteiner 2000), *Hygrocybe subviolacea* (Peck) P.D. Orton & Watling.

Hygrocybe lactarioides Singer, Fieldiana, Botany N.S. 21: 5. 1989.

Holotype: Bolivia, Guayaramerín, 16 Mar. 1956, R. Singer B-2012 (LIL).

Note: Non *Hygrophorus lactarioides* Henn.

Hygrocybe laeta (Pers.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.

Basionym: *Agaricus laetus* Pers., Observationes mycologicae 2: 48. 1799 (sanctioned in *Systema mycologicum* 1: 102. 1821).

Type: Not designated. Protologue based on European material.

≡ *Hygrophorus laetus* (Pers.: Fr.) Fr. 1836-1838: 329, *Gliophorus laetus* (Pers.: Fr.) Herink 1958: 84.

= *Hygrocybe davisii* (Peck) Murrill, *Hygrophorus houghtonii* Berk. & Broome, *Hygrocybe peckii* (G.F. Atk.) Murrill, *Hygrocybe roseipes* Murrill (Hesler & Smith 1963), *Hygrocybe sulcata* P. Karst.

Hygrocybe laeta forma curtipes F.H. Møller, Fungi of the Færoes: 137. 1945.

Holotype: Faeroe Islands, Eysturoy, Skáli, 3 Sept. 1938, F.H. Møller (C).

Hygrocybe laeta forma griseopallida Bon, Document mycologiques 6 (24): 41. 1976.

Holotype: France, Berck, M. Bon 81055-B, herb. not indicated.

Hygrocybe laeta forma pseudopsittacina Bon, Document mycologiques 6 (24): 41. 1976.

Holotype: France, Somme, near St Valery, M. Bon 74102406, herb. not indicated.

Hygrocybe laetissima (A.H. Smith & Hesler) Singer, Lilloa 22: 153. 1951 “1949”.
Basionym: *Hygrophorus laetissimus* A.H. Smith & Hesler, Lloydia 5: 63. 1942.
Holotype: USA, California, Orick, Prairie Creek State Park, 27 Nov. 1937, A.H. Smith 9148 (MICH).

Hygrocybe lamalama Desjardin & Hemmes, Mycologia 89: 635. 1997.
Type: USA, Hawai'i, Saddle Rd. at 21 mi kipuka, 13 Jan. 1992, D.E. Desjardin 5505 (holotype SFSU, isotype BISH).

Hygrocybe lanecovensensis A.M. Young, Austrobaileya 5: 558. 1999.
Holotype: Australia, New South Wales, Lane Cove Bushland Park, R. & E. Kearney & A.M. Young (DAR no. 73917).

Hygrocybe langei Kühner, Le Botaniste 18: 175. 1927 (nomen novum).
Replaced synonym: *Hygrocybe constans* J.E. Lange, Dansk Botanisk Arkiv 4 (4): 24. 1923 illegitimate name.
Type: Denmark, Fyn, between Slukefter and Langesø, Aug. 1917, J.E. Lange. The illustration in Lange 1940 (plate 167C) and its original (C) may represent the type.
 ≡ *Hygrocybe rickenii* Maire superfluous name, *Hygrocybe persistens* var. *langei* (Kühner) Bon 1987: 35.
 = *Hygrocybe acutoconica* (Clem.) Singer.
Note: Non *Hygrocybe constans* Murrill (1912a).

Hygrocybe laricina (Peck) Murrill (as “*Hydrocybe laricina*”), North American Flora 9: 380. 1916.
Basionym: *Hygrophorus laricinus* Peck, Memoir of the New York State Museum 3 (4): 146. 1900.
Holotype: USA, New York State, Warrensburg, Oct. (NYS).

Hygrocybe lateritorosella Singer, Beihefte zur Nova Hedwigia 29: 19. 1969.
Holotype: Chile, Colchagua, near Pumanque, W. Lazo PU-54 (SGO).

Hygrocybe lawsonensis A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 981. 1997.
Holotype: Australia, New South Wales, Lawson, 30 May 1992, A.E. Wood (UNSW no. 92/211).

Hygrocybe lepida Arnolds, Persoonia 13: 139. 1986.
Holotype: The Netherlands, Drenthe, Dwingeloo, Lheebroekerzand, near Kliploo, 8 Nov. 1968, Barkman 8871 (previously WBS now WAG).
 = *Hygrocybe cantharellus* (Schwein.: Fr.) Murrill, *Hygrophorus turundus* var. *lepidus* Boud.

Hygrocybe lepidopellis Pegler, Agaric Flora of the Lesser Antilles: 80. 1983.
Holotype: Guadeloupe, Basse-Terre, Village, Trace des Crêtes, 24 Oct. 1977, D. Pegler 3106 (K).

Hygrocybe lepidopus (Rea) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus lepidopus* Rea, Transactions. The British Mycological Society 12: 214. 1927.

Type: Not designated. Protologue based on material from UK. Material collected by Rea (K) could be selected as epitype.

= Probably *Hygrocybe fornicata* (Fr.) Singer (Arnolds 1985a).

Hygrocybe leporina (Fr.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 132. 1969.

Basionym: *Hygrophorus leporinus* Fr., Epicrisis systematis mycologici seu synopsis hymenomycetum 326. 1836-1838.

Type: Not designated. Protologue based on material from Europe.

≡ *Camarophyllus leporinus* (Fr.) Wünsche 1877: 116.

Hygrocybe leucogloea A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 983. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 29 Apr. 1989, A.E. Wood (UNSW no. 89/87).

Hygrocybe lewellinae (Kalchbr.) A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1011. 1997.

Basionym: *Hygrophorus lewellinae* Kalchbr., Proceedings of the Linnean Society of New South Wales 7: 105. 1882.

Type: Australia, Victoria, Western Port, 14 June 1880, M.R. Lewellin. Only original painting is kept (MEL no. RB MSS A11), which has been quoted as the holotype (Young & Wood 1997).

Note: Brittlebank (1940: 181) also transferred *Hygrophorus lewellinae* to *Hygrocybe*. However, this was probably not effectively published (Art. 29.1), as the publication only was issued in very few copies (A.M. Young pers. comm.).

Hygrocybe lilaceolamellata (G. Stev.) E. Horak, New Zealand Journal of botany 9: 434. 1971.

Basionym: *Hygrophorus lilaceolamellatus* G. Stev., Kew Bulletin 16: 378. 1963.

Holotype: New Zealand, Wellington, Botanic Garden, 2 June 1949, G. Stevenson 619 (K). Studied by Horak (1973).

≡ *Hygrocybe lilaceolamellata* (G. Stev.) E. Horak 1973: 141 superfluous combination.

Hygrocybe lilacina (C. Laest. ex P. Karst.) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. Aufl.: 64. 1967.

Basionym: *Omphalia lilacina* P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 133. 1879 (nomen novum for *Agaricus lilacinus* C. Laest. 1860: 31 (description p. 45)).

Type: Not designated. Protologue based on material from Sweden, Norrbotten, Torneå Lappmark, Karavaara.

≡ *Hygrophorus lilacinus* (C. Laest. ex P. Karst.) M. Lange 1957: 63, *Gliophorus lilacinus* (C. Laest. ex P. Karst.) Kovalenko 1989: 91.

= *Hygrophorus violeipes* M. Lange (Lange 1957), *Hygrophorus palustris* V.L. Wells & Kempton.

Note: Non *Agaricus lilacinus* Montagne (1856b), nec *Camarophyllus lilacinus* (Cleland & Cheel) E. Horak (1990). Laestadius's name is a homonym and therefore illegitimate (Boertmann 1990). However, Karsten's (1879) combination into *Omphalia* must be considered as a nomen novum (Art. 58.1).

Hygrocybe lilacinella Courtec., *Cryptogamie - Mycologie* 10: 191. 1989.

Holotype: French Guyana, Nouragues montes, 20 Feb. 1988, R. Courtecuisse RC/GF88.168 (PC).

Hygrocybe lilacinoides (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus lilacinoides* E. Horak, *Beihefte zur Nova Hedwigia* 43: 172. 1973.

Type: New Zealand, South Auckland, Coromandel Peninsula, Kauaeranga Valley, 5 July 1968, E. Horak (holotype PDD no. 27094, isotype ZT no. 68/646). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe lilacinoviridis A.M. Young, in A.M. Young & A.E. Wood: *Australian Systematic Botany* 10: 1013. 1997.

Holotype: Australia, New South Wales, Watagan State Forest, 10 May 1982, A.E. Wood (UNSW no. 82/397).

Hygrocybe lilacipes (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus lilacipes* E. Horak, *Beihefte zur Nova Hedwigia* 43: 178. 1973.

Type: New Zealand, Southland, Lake Te Anau, Mt Luxmore, 9 Apr. 1969, E. Horak, (holotype PDD no. 27097, isotype ZT no. 68/325).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe lurida (Berk. & M.A. Curtis) Murrill (as "*Hydrocybe lurida*"), *North American Flora* 9: 381. 1916.

Basionym: *Hygrophorus luridus* Berk. & M.A. Curtis, *Hooker's Journal of Botany and Kew Garden Miscellany* 1: 99. 1849.

Holotype: USA, South Carolina, July 1947, M.A. Curtis 1256 (K).

Hygrocybe lutea (Beeli) Heinem., *Bulletin du jardin botanique de l'état. Bruxelles* 33: 444. 1963.

Basionym: *Clitocybe lutea* Beeli, *Bulletin de la société royale de botanique de Belgique* 66: 21. 1933.

Holotype: Zaire, Distr. Forestier Central, Binga, July 1928, M. Goossens-Fontana 796 (BR). Studied by Heinemann (1963, 1966) and Pegler (1983).

Hygrocybe luteoconica A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 986. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 28 Apr. 1982, A.E. Wood (UNSW no. 82/185).

Hygrocybe luteoglutinosa (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus luteoglutinosus* E. Horak, Beihefte zur Nova Hedwigia 43: 169. 1973.

Type: New Zealand, South Auckland, Coromandel Peninsula, east of Tapu, 11 July 1968, E. Horak (holotype PDD no. 27092, isotype ZT no. 68/667). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe luteolaeta Arnolds, Persoonia 12: 477. 1985b.

Type: The Netherlands, Friesland, Isle of Schiermonnikoog, near Westerplas, 2 Nov. 1975, C. Bas & E. Arnolds 3509 (holotype WAG previously WBS, iso- L).

≡ *Gliophorus luteolaetus* (Arnolds) Kovalenko 1988: 209, *Hygrocybe laeta* var. *luteolaeta* (Arnolds) Bon 1989a: 56.

= *Hygrocybe vitellina* (Fr.) P. Karst. (Boertmann 1995).

Hygrocybe luteo-omphaloides L.L. Norvell, Redhead & Ammirati, Mycotaxon 50: 399. 1994 (nomen novum).

Replaced synonym: *Omphalia occidentalis* A.H. Smith, Contributions from the University of Michigan Herbarium 5: 28.1941.

Holotype: USA, Washington, Olympic Mountains, Mount Angeles, near Heart O'Mills, 25 June 1939, A.H. Smith 14623 (MICH).

Notes: Non *Hygrocybe occidentalis* (Dennis) Pegler (in Pegler & Fiard) 1978, nec *Hygrophorus occidentalis* A.H. Smith & Hesler 1939.

Hygrocybe luteovirens E. Horak, Beihefte zur Nova Hedwigia 43: 148. 1973.

Type: New Zealand, Westland, Hari Hari, Mt Wilberg, 15 Feb. 1969, E. Horak, (holotype PDD no. 27085, isotype ZT no. 69/78).

≡ *Humidicutis luteovirens* (Horak) Horak 1990: 296.

Hygrocybe macrospora (S. Ito & S. Imai) S. Ito, Mycological Flora of Japan 2 (5): 75. 1959.

Basionym: *Hygrophorus macrosporus* S. Ito & S. Imai, Transactions of the Sapporo natural history society 16: 14. 1939.

Holotype: Japan, Bonin Islands, Chichi-shima, Asahiyama, 12 Nov. 1936, herb. not indicated.

Hygrocybe marchii (Bres.) Singer, Lilloa 22: 153. 1951 "1949".

Basionym: *Hygrophorus marchii* Bres., Iconographia Mycologica 7: plate 343. 1928.

Type: Not designated. Protologue based on material from Italy, Trento, Val de Sole.

≡ *Pseudohygrocybe marchii* (Bres.) Kovalenko 1988: 208, *Hygrocybe coccinea* var. *marchii* (Bres.) Krieglst. et al. 2000: 31.

Hygrocybe marginata (Peck) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 308. 1889.

Basionym: *Hygrophorus marginatus* Peck, Twenty-eighth annual report of the New York State Museum of Natural History: 50. 1879.

Holotype: USA, New York State, Northville, Aug., C.H. Peck (NYS). Studied by Hesler & Smith (1963) and Horak (1968).

≡ *Hygrocybe marginata* (Peck) Murrill (as "*Hydrocybe marginata*") 1916a: 378 superfluous combination, *Tricholoma marginatum* (Peck) Singer 1943a: 154, *Humidicutis marginata* (Peck) Singer 1959: 225.

Hygrocybe martinicensis Pegler & Fiard, Kew Bulletin 32: 308. 1978.

Holotype: Martinique, Morne Platine, 16 July 1975, J.P. Fiard 232 (K).

Supplementary type description by Pegler (1983).

Hygrocybe mavis (G. Stev.) E. Horak, New Zealand Journal of botany 9: 434. 1971.

Basionym: *Hygrophorus mavis* G. Stev., Kew Bulletin 16: 377. 1963.

Holotype: New Zealand, Levin, 18 June 1949, G. Stevenson 654 (K).

= *Hygrocybe pura* (Peck) Murrill (Horak 1990), but disputed by Young & Wood (1997).

≡ *Hygrocybe mavis* (G. Stev.) E. Horak 1973: 131 superfluous combination.

Hygrocybe megistospora Singer, Fieldiana, Botany N.S. 21: 5. 1989.

Holotype: Brazil, Goiás, Aguas Emendadas Res., 21 Jan. 1978, R. Singer B-10560 (INPA).

Hygrocybe melleofusca Lodge & Pegler, Mycological Research 94: 453. 1990.

Holotype: Puerto Rico, El Verde Research Area, Luquillo Experimental Forest, 13 Sept. 1986, D.J. Lodge PR-579 (K no. M870).

Hygrocybe mellita Pegler, Agaric Flora of the Lesser Antilles: 82. 1983.

Holotype: Guadeloupe, Basse-Terre, Sainte-Rose, Trace de Sofaia, 25 Oct. 1977, J.P. Fiard 1048 (K).

Hygrocybe memorialis Bon & B. Lefebvre, Documents mycologiques 29 (114): 17. 1999.

Holotype: France, Somme, Beaumont-Hamel, Mémorial canadien, Nov. 1998, B. Lefebvre (LIP no. MB 98165).

Hygrocybe mephitica (Peck) Courtec., Cryptogamie - Mycologie 10: 193. 1989.

Basionym: *Hygrophorus mephiticus* Peck, Bulletin of the Torrey Botanical Club 33: 213. 1906.

Holotype: USA, Massachusetts, Stow, 25 Aug. 1905, S. Davis (NYS). Studied by Hesler & Smith (1963).

Hygrocybe metapodia (Fr.) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. aufl.: 63. 1967.

Basionym: *Agaricus metapodius* Fr., Observationes mycologicae 2: 110. 1818.

Type: Not designated. Protologue based on material from Sweden, Yaberg (?).

≡ *Hygrophorus metapodius* (Fr.) Fr. 1836-1838: 328, *Camarophyllus metapodius* (Fr.) Wünsche 1877: 115, *Neohygrocybe metapodia* (Fr.) Herink 1958: 71 invalidly published (no basionym, Art. 33.3), *Porpoloma metapodium* (Fr.) Singer 1973: 19.

Hygrocybe mexicana Singer, Sydowia 12: 225. 1959 “1958”.

Holotype: Mexico, Oaxaca, Huautla de Jiménez, 12 July 1957, R. Singer, M 1531 (LIL).

≡ *Hygrophorus mexicanus* (Singer) Hesler & A.H. Smith 1963: 181.

Hygrocybe mexicana forma defibulata Desjardin & Hemmes, Mycologia 89: 618, 1997.

Type: USA, Hawai’i, Hilo, 333 Kalili St., 21 Sept. 1994, D.E. Hemmes 576 (holotype SFSU, isotype BISH).

Hygrocybe micacea (Berk. & Broome) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 134. 1969. See *Camarophyllopsis micacea* p. 75.

Hygrocybe miniata (Fr.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.

Basionym: *Agaricus miniatus* Fr.: Fr., Systema mycologicum 1: 105. 1821. Type not designated. Protologue based on material from Sweden.

Neotype (Arnolds 1986d): Sweden, Småland, Femsjö, 21 Sept. 1980. M. Moser 80/372, IB.

≡ *Hygrophorus miniatus* (Fr.: Fr.) Fr. 1836-1838: 330, *Pseudohygrocybe miniata* (Fr.: Fr.) Kovalenko 1988: 209.

= *Hygrocybe strangulata* (P.D. Orton) Svrček, *Hygrocybe moseri* Bon.

Hygrocybe miniatoalba (Pat.) F.H. Møller, Fungi of the Faeroes 1: 154. 1945.

Basionym: *Hygrophorus miniatoalbus* Pat. (as *H. “miniato-albus”*), Bulletin de la Société Mycologique de France 29: 213. 1913.

Type: Vietnam, Tonkin, Thai Ha, 6 July 1909, M. Demange 367 (FH). Studied by Arnolds (1974a).

= Probably *Hygrocybe cantharellus* (Schwein.: Fr.) Murrill (Arnolds 1974a).

Hygrocybe miniatoaurantiaca Hongo, Reports of the Tottori mycological institute 28: 131. 1990.

Holotype: New Zealand, Auckland, Waitakere Ranges, Spragg’s Bush, 19 Apr. 1987, T. Hongo NZ-017 (PDD).

Hygrocybe miniatofirma S.A. Cantrell & Lodge, Mycological Research 105: 220. 2001.

Type: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., Palo Hueco, 1 July 1998, S.A. Cantrell, C. Laboy & R. Negron (holotype CFMR PR no. 4868, isotype NY).

Hygrocybe miniatostrata (S. Ito & S. Imai) S. Ito, Mycological Flora of Japan 2 (5): 85. 1959.

Basionym: *Hygrophorus miniatostratus* S. Ito & S. Imai, Transactions of the Sapporo natural history society 16: 15. 1939.

Holotype: Japan, Bonin Islands, Chichi-shima, Fukurozawamura-Kobikidani, 15 Nov. 1936, herb. not indicated.

Hygrocybe miniceps (G. Stev.) E. Horak, New Zealand Journal of Botany 28: 263. 1990.

Basionym: *Hygrophorus miniceps* G. Stev., Kew Bulletin 16: 380. 1963.

Holotype: New Zealand, Wellington, Butterfly Creek, 2 June 1958, G. Stevenson 1348 (K). Studied by Horak (1973).

Hygrocybe minutula (Peck) Murrill (as "*Hydrocybe minutula*"), North American Flora 9: 380. 1916.

Basionym: *Hygrophorus minutulus* Peck, Bulletin of the New York State Museum of Natural History 1 (2): 9. 1887.

Holotype: USA, New York State, Sandlake, July, C.H. Peck (NYS). Studied by Hesler & Smith (1963).

≡ *Gliophorus minutulus* (Peck) Kovalenko 1988: 209.

Hygrocybe minutula var. *nanangensis* A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 990. 1997.

Holotype: Australia, Queensland, Nanango, 11 Apr. 1989, A.M. Young (BRIP no. 22523).

Hygrocybe mollis (Berk. & Broome) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales) 3. aufl.: 69. 1967.

Basionym: *Hygrophorus turundus* var. *mollis* Berk. & Broome, The annals and magazine of natural history. Fourth series 7: 426. 1871.

Type: UK, Coed Coch, Oct, 1869-1870, material in K could be syntype.

≡ *Hygrophorus mollis* (Berk. & Broome) Kauffman 1926: 130, *Hygrophorus miniatus* var. *mollis* (Berk. & Broome) Arnolds 1974a: 103, *Hygrocybe miniata* var. *mollis* (Berk. & Broome) Arnolds 1986d: 148.

= *Hygrocybe moseri* Bon (Arnolds 1986d).

Hygrocybe monscaiensis F. Palazón, M Tabarés & A. Rocabruna, Revista Catalana de Micologia 22: 127. 1999.

Holotype: Spain, Zaragoza, Parque Nacional del Moncayo, 31 Oct. 1997, A. Martínez (SMC 3514B).

Hygrocybe moseri Bon, Documents mycologiques (6) 24: 42. 1976.

Holotype: France, Somme, near Rue, Sept. 1963, M. Bon 3926 B (herb. M. Bon). Studied by Arnolds (1986d).

= *Hygrocybe miniata* var. *mollis* (Berk. & Broome) Arnolds (Arnolds 1986d).

Hygrocybe mucronella (Fr.) P. Karst. (as “*Hydrocybe mucronella*”), Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 235. 1879.

Basionym: *Hygrophorus mucronellus* Fr., *Epicrisis systematis mycologici seu synopsis hymenomycetum*: 331. 1836-1838.

Type: Not designated. Protologue based on Lasch’s (1828) *Agaricus puniceus* β *acutus* from Germany, Brandenburg.

= *Hygrocybe reai* (Maire) J.E. Lange (Boertmann 1995).

Hygrocybe multicolor (Berk. & Broome) E. Horak, *Flora criptogámica de Tierra del Fuego* 11: 57. 1979.

Basionym: *Hygrophorus multicolor* Berk. & Broome, *The Journal of the Linnean Society. Botany* 11: 562. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Jan. 1869, Thwaites 899. Only extant material is an unpublished original painting (K), studied by Pegler (1986).

≡ *Humidicutis multicolor* (Berk. & Broome) E. Horak 1990: 298.

= *Hygrophorus caesius* Berk. & Broome (Pegler 1986).

Hygrocybe murinacea (Bull.: Fr.) P. Kumm., *Der Führer in die Pilzkunde*: 112. 1871.

Basionym: *Agaricus murinaceus* Bull., *Herbier de la France*: Plate 520. 1790 (sanctioned in *Systema mycologicum*: 116. 1821).

Type: Not designated. Protologue based on material from France.

≡ *Hygrophorus murinaceus* (Bull.: Fr.) Fr. 1836-1838: 333, *Hygrocybe murinacea* (Bull.: Fr.) M.M. Moser 1967: 63 superfluous combination.

Hygrocybe mutabilis Singer, *Fieldiana, Botany N.S.* 21: 5. 1989.

Holotype: Brazil, Amazonas, Laguna Januari, 21 Dec. 1978, R. Singer B-11465 (INPA).

Notes: Non *Hygrophorus mutabilis* Petch 1922.

Hygrocybe naranjana Pegler, in Pegler & Fiard: *Kew Bulletin* 32: 304. 1978 (nomen novum).

Replaced synonym: *Hygrophorus firmus* var. *purpureus* Dennis, *Kew Bulletin* 8: 267. 1953.

Holotype: Trinidad, Naranja, 2 Oct. 1949, R.W.G. Dennis 111 (K). Studied by Hesler & Smith (1963) and Pegler & Fiard (1978). Supplementary type description by Pegler (1983).

Notes: Non *Hygrocybe purpurea* (Beeli) Heinem. 1963.

Hygrocybe neoceracea Hongo, *Transactions of the mycological society of Japan* 25: 282. 1984.

Holotype: Japan, Shiga, Ôtsu-city, Shibahara, 18 Oct. 1980, T. Hongo 6234 (herb. T. Hongo).

Hygrocybe neofirma S.A. Cantrell & Lodge, Mycological Research 105: 221. 2001.
Type: Puerto Rico, Mun. Rio Grande, Caribbean National Forest, Luquillo Mts., Palo Hueco, El Cacique area, 21 July 1999, S.A. Cantrell & C. Laboy (holotype CFMR PR no. 5667, isotype UPRRP).

Hygrocybe nigrescens (Quél.) Kühner, Le Botaniste 17: 57. 1926.
Basionym: *Hygrophorus puniceus* var. *nigrescens* Quél., Assosiation Française pour l'avancements des sciences. Congrès Rouen: 6. 1883.
Type: Not designated. Protologue based on material from France, Alpes-Maritimes. ≡ *Hygrophorus nigrescens* (Quél.) Quél. 1888: 254, *Godfrinia nigrescens* (Quél.) Herink 1958: 65 invalidly published (no basionym, Art. 33.3).
Note: The protologue published twice: as indicated above, and in "Assosiation Française pour l'avancements des sciences. Compte Rendu 12: 503. 1884".

Hygrocybe nitida (Berk. & M.A. Curtis) Murrill (as "*Hydrocybe nitida*"), North American Flora 9: 378. 1916.
Basionym: *Hygrophorus nitidus* Berk. & M.A. Curtis, Annals and magazine of natural history. Second series 12: 424. 1853.
Holotype: USA, South Carolina, Sept., H.W. Ravenel (M.A. Curtis 2878) (K).
 ≡ *Gliophorus nitidus* (Berk. & M.A. Curtis) Kovalenko 1988: 209.
Note: Non *Hygrophorus nitidus* Fr. (1863) illegitimate name.

Hygrocybe nitida var. *lutea* Murrill (as "*Hydrocybe nitida* var. *lutea*"), Bulletin of the Torrey Botanical Club 66: 159. 1939.
Holotype: USA, Florida, Planera Hammock NW of Gainesville, 13 Aug. 1938, W.A. Murrill F-18291 (FLAS).

Hygrocybe nitiosa (A. Blytt) M. M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. aufl.: 63. 1967.
Basionym: *Hygrophorus nitiosus* A. Blytt, Norges Hymenomyceter: 88. 1905 (Videnskabs-Selskabets Skrifter. I Math.-Naturv. Kl. 1904. No. 6).
Type: Not designated. Protologue based on material from Norway. Several sites mentioned in protologue and material (O) collected by Blytt (G. Gulden pers. comm.) could perhaps be a syntype or designated as epitype.
 = *Hygrocybe ovina* (Bull.: Fr.) Kühner.
Notes: Saccardo & Trotter (1912) quote the name as *Hygrophorus nitrosus* A. Blytt.

Hygrocybe nitrata (Pers.) Wünche, Die Pilze: 112. 1877.
Basionym: *Agaricus nitratus* Pers., Synopsis methodica fungorum: 356. 1801.
Type: Not designated. Protologue based on material from Europe.
 ≡ *Hygrophorus nitratus* (Pers.) Fr. 1874: 421, *Camarophyllus nitratus* (Pers.) Ricken 1920: 198, *Neohygrocybe nitrata* Herink 1958: 71 invalidly published (no basionym, Art. 33.3), *Neohygrocybe nitrata* (Pers.) Kovalenko 1989: 40.

Hygrocybe nivea (Scop.) Murrill (as "*Hydrocybe nivea*"), North American Flora 9: 377. 1916.
Basionym: *Agaricus niveus* Scop., Flora Carniolica 2 (ed. 2): 430. 1772.

Type: Not designated. Protologue based on material from Slovenia, Kranj.
 ≡ *Agaricus virgineus* a. *A. niveus* (Scop.) Fr. 1821: 100, *Hygrophorus niveus* (Scop.) Fr. 1836-1838: 327, *Camarophyllus niveus* (Scop.) Wünsche 1877: 115, *Cuphophyllus niveus* (Scop.) Bon 1984b: 11.
 = *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling.

Hygrocybe nivosa (Berk. & Broome) Fayod, Annales des sciences naturelles, septième série. Botanique 9: 310. 1889.

Basionym: *Hygrophorus nivosus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 563. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Jan. 1869, Thwaites 904 (K).

≡ *Camarophyllus nivosus* (Berk. & Broome) Pegler 1986: 53.

Hygrocybe nobilis (Velen.) Petrak, Index of Fungi 1936-1939. 1950: 44.

Basionym: *Hygrophorus nobilis* Velen., Novitates Mycologicae: 25. 1939.

Type: Czech Republic, Nov. 1939, J. Velenovský, herb. not indicated, but three of Velenovský's collections (PRM) could be syntypes or one designated as epitype.

Hygrocybe noelokelani Desjardin & Hemmes, Mycologia 89: 621. 1997.

Type: USA, Hawai'i, Saddle Rd. at 18.5 mi kipuka, 6 June 1994, D.E. Hemmes 455, (holotype SFSU, isotype BISH).

Hygrocybe noelokelani var. *defibulata* Desjardin & Hemmes, Mycologia 89: 623. 1997.

Type: USA, Hawai'i, Moloka'i, Kamakou Forest Preserve, Kamoku Flats, 11 Jan. 1994, D.E. Desjardin 6035 (holotype SFSU, isotype BISH).

Hygrocybe nouraguensis Courtec., Cryptogamie - Mycologie 10: 207. 1989.

Holotype: French Guyana, near Nourages montes, 15 Feb. 1988, R. Courtecuisse RC/GF88.048 (PC).

Hygrocybe obrussea (Fr.: Fr.) Wünsche, Die Pilze: 113. 1877.

Basionym: *Agaricus obrusseus* Fr.: Fr., Systema mycologicum 1: 104. 1821.

Type: Not designated, protologue based on material from Sweden. Neotype (Arnolds 1986d): Sweden, Uppland, Uppsala, Carolinaparken, 29 Aug. 1959, H. Belin (Fungi Exsiccati Suecici nr. 2870) (UPS).

≡ *Hygrophorus obrusseus* (Fr.: Fr.) Fr. 1836-1838: 331, *Godfrinia obrussea* (Fr.: Fr.) Herink 1958: 66 invalidly published (no basionym, Art. 33.3), *Pseudo-hygrocybe obrussea* (Fr.: Fr.) Kovalenko 1988: 208.

= *Hygrocybe quieta* Kühner (Arnolds 1986d).

Hygrocybe occidentalis (Dennis) Pegler, in Pegler & Fiard: Kew Bulletin 32: 310. 1978.

Basionym: *Hygrophorus firmus* var. *occidentalis* Dennis, Kew Bulletin 8: 267. 1953.

Holotype: Trinidad, Siparia Forest Reserve, 5 Nov. 1949, R.W.G. Dennis 50A (K). Studied by Hesler & Smith (1963), Pegler & Fiard (1978) and Pegler (1983).

Note: Non *Hygrophorus occidentalis* A.H. Smith & Hesler (1939).

Hygrocybe occidentalis var. *scarletina* Pegler & Fiard, Kew Bulletin 32: 311. 1978.

Holotype: Martinique, Forêt du Morne des Olives, Nov. 1974, J.P. Fiard 92 (K).

Hygrocybe ochraceopallida P.D. Orton, Notes from the Royal Botanic Garden Edinburgh 38: 329. 1980.

Holotype: UK, England, Devon, Braunton Burrows, 22 Sept. 1959, P.D. Orton 3611 (E).

≡ *Cuphophyllus ochraceopallidus* (P.D. Orton) Bon 1984b: 11, *Hygrocybe virginea* var. *ochraceopallida* (P. D. Orton) Boertm. 1995: 52, *Camarophyllus virgineus* var. *ochraceopallidus* (P.D. Orton) M. Beisenherz in Habler & Beisenherz 1998: 99.

Hygrocybe octayensis Singer, Beihefte zur Nova Hedwigia 29: 15. 1969.

Holotype: Chile, Osorno, Puerto Octay, 15 Sept. 1967, R. Singer M-7538 (SGO).

Hygrocybe olivaceofirma Lodge, S.A. Cantrell & Nieves-Rivera, in Cantrell & Lodge, Mycological Research 105: 222. 2001.

Holotype: Puerto Rico, Mun. Luquillo, Caribbean National Forest, Luquillo Mts., Bisley Watershed, 19 June 1997, A.M. Nieves-Rivera (CFMR no. PR 4391).

Hygrocybe olivaceonigra (P.D. Orton) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales) 3. aufl.: 66. 1967.

Basionym: *Hygrophorus olivaceoniger* P.D. Orton, Transactions. The British Mycological Society 43: 263. 1960.

Holotype: UK, England, Norfolk, Holkham Gab Dunes, 6 Oct. 1958, E.A. Ellis (K).

≡ *Hygrophorus conicus* var. *olivaceoniger* (P.D. Orton) Arnolds 1974a: 103.

Hygrocybe olivaceoviridis (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus olivaceoviridis* Hongo, Journal of Japanese Botany 42: 151. 1967.

Holotype: Japan, Shiga, Kagawa, Ôtso-city, Ishiyama-dera, 21 June 1965, T. Hongo 3068 (herb. T. Hongo).

Hygrocybe olivaceoviridis forma hirasansensis (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91, 1982.

Basionym: *Hygrophorus olivaceoviridis forma hirasansensis* Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 20: 49. 1970.

Holotype: Japan, Shiga, Shiga-chô, Hira Mountains, Mt Bunagadake, 14 June 1966, T. Hongo 3233 (herb. T. Hongo).

Hygrocybe ortoniana Bon, Documents mycologiques 19 (75): 55. 1989.

Holotype: UK, P.D. Orton 483 (E).

Note: *Hygrocybe glutinipes* (J.E. Lange) R. Haller Aar. ss. P.D. Orton.

Hygrocybe ostrina (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus ostrinus* E. Horak, New Zealand Journal of Botany 28: 288. 1990.

Holotype: New Zealand, North Auckland, Little Barrier Island, near summit of Mt Hauturu, 12 June 1981, E. Horak (PDD no. 27228).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe otsuensis (Hongo) ex Hongo, Shiga University. Natural Science 32: 91. 1982 (nomen novum).

Replaced synonym: *Hygrophorus otsuensis* Hongo, Transactions of the mycological society of Japan 16: 379. 1975. Superfluous renaming of *Hygrophorus dichrous* Hongo, Journal of Japanese Botany 33: 101. 1958.

Holotype: Japan, Shiga, Ôtsu-city, Ishiyamadera, 8 July 1954, T. Hongo (herb. T. Hongo).

Note: Originally described as *Hygrophorus dichrous* Hongo (1958a). Hongo (1975) realised that this was a later homonym of *Hygrophorus dichrous* Kühner & Romagn. (1953), which however is a nomen nudum. Hongo's (1975) renaming is therefore superfluous, and the transfer to *Hygrocybe* should then be treated as a renaming (Art. 58.1).

Hygrocybe ovina (Bull.: Fr.) Kühner, Le Botaniste 17: 44. 1926.

Basionym: *Agaricus ovinus* Bull., Herbar de la France: Plate 580. 1793 (sanctioned in *Systema mycologicum* 1: 109. 1821).

Type: Not designated. Protologue based on material from France.

≡ *Hygrophorus ovinus* (Bull.: Fr.) Fr. 1836-1838: 328, *Camarophyllus ovinus* (Bull.: Fr.) P. Kumm. 1871: 17, *Hygrocybe ovina* (Bull.: Fr.) F.H. Møller 1945: 137 superfluous combination, *Neohygrocybe ovina* (Bull.: Fr.) Herink 1958: 72.

= *Hygrocybe nitiosa* (A. Blytt) M.M. Moser. (Arnolds 1990).

Hygrocybe pakelo Desjardin & Hemmes, Mycologia 89: 625. 1997.

Type: USA, Hawai'i, Saddle Rd. at 18.5 mi kipuka, 6 Dec. 1994, D.E. Hemmes 653 (holotype SFSU, isotype BISH).

Hygrocybe pallida (A.H. Smith) Singer, Beihefte zur Sydowia 7: 7. 1973.

Basionym: *Hygrophorus laetus forma pallidus* A.H. Smith, Papers of the Michigan academy of science, arts and letters 38: 59. 1953.

Holotype: USA, Michigan, Near Pellston, 11 Aug. 1951, H. Thiers (A.H. Smith 37616) (MICH).

≡ *Hygrocybe laeta* var. *pallida* (A.H. Smith) Bon 1976a: 41, *Gliophorus laetus forma pallidus* (A.H. Smith) Kovalenko 1988: 209.

Note: Non *Hygrophorus pallidus* Peck, nec *Hygrophorus pallidus* Velen. illegitimate name, nec *Gliophorus pallidus* E. Horak.

Hygrocybe pantoleuca (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus pantoleucus* Hongo, Journal of Japanese Botany 33: 135. 1958.

Holotype: Japan, Shiga, Ôtsu-city, Ishiyama-Hiratsu-chô, 31 Oct. 1957, T. Hongo (herb. T. Hongo).

Hygrocybe paraceracea Bon, Documents mycologiques 19 (75): 56. 1989.

Holotype: France, M. Bon 741026 (herb. M. Bon).

= Probably *Hygrocybe ceracea*.

Hygrocybe paraibensis Singer, Atas do Instituto de Micologia 2: 19. 1965.

Holotype: Brazil, Paraiba, João, Pessôa, 11 July 1960, R. Singer B-3320 (LIL).

Hygrocybe parvicoccinea (S. Ito & S. Imai) S. Ito, Mycological Flora of Japan 2 (5): 77. 1959.

Basionym: *Hygrophorus parvicoccineus* S. Ito & S. Imai, Transactions of the Sapporo natural history society 16: 14. 1939.

Holotype: Japan, Bonin Islands, Chichi-shima, Asahiyama, 12 Nov. 1936, herb. not indicated.

Hygrocybe parvispora T.K. Abraham, K.B. Vrinda & C.K. Pradeep, Mycotaxon 60: 361. 1996.

Type: India, Kerala, Tropical Botanic Garden and Research Institute, 8 Aug. 1995, T.K. Abraham, K.B. Vrinda & C.K. Pradeep no. 2402 (holotype herb. Microbiology division at Tropical Botanic Garden and Research Institute, Kerala, isotype K).

Hygrocybe parvula (Peck) Murrill (as "*Hydrocybe parvula*"), North American Flora 9: 378. 1916.

Basionym: *Hygrophorus parvulus* Peck, Twenty-eighth annual report of the New York State Museum of Natural History: 50. 1879.

Syntypes: USA, New York State, Northville and Lake Pleasant, Aug., C.H. Peck (NYS), Northville collection studied by Hesler & Smith (1963).

≡ *Hygrocybe parvula* (Peck) Pegler 1983: 64 superfluous combination, *Pseudo-hygrocybe parvula* (Peck) Kovalenko 1988: 208.

= *Hygrocybe ceracea* (Fr: Fr.) P. Kumm. (Pegler 1983).

Hygrocybe patinaecolor (E. Horak) Boertm. comb. nov.

Basionym: *Camarophyllus patinaecolor* E. Horak, Beihefte zur Nova Hedwigia 43: 118. 1973.

Type: New Zealand, Taranaki, Egmont National Park, Rahiri Lodge, 17 June 1968, E. Horak (holotype PDD no. 27072, isotype ZT no. 68/556). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe peckii (G.F. Atk.) Murrill (as "*Hydrocybe peckii*"), North American Flora 9: 379. 1916.

Basionym: *Hygrophorus peckii* G.F. Atk., Journal of Mycology 8: 114. 1902.

Syntypes: USA, New York State, Cornell Heights 11 July 1902, C.H. Kauffman (CUB A-9733) and McGowans woods, 2 July 1902, H.H. Whetzel "Wetzel" (CUB A-9667).

= *Hygrocybe laeta* (Pers.: Fr.) P. Kumm. (Hesler & Smith 1963).

Note: Label on A-9773 differs from protologue and reads: New York State, Ithaca, Tompkins Co., McGowans Woods (K. Hodge pers. comm.).

Hygrocybe peleae (Desjardin & Hemmes) Boertm. comb. nov.

Basionym: *Humidicutis peleae* Desjardin & Hemmes, *Mycologia* 89: 628. 1997.

Type: USA, Hawai'i, Wailuku Bog off Saddle Rd. at 14 mi marker, 7 July 1994, D.E. Hemmes 492 (holotype SFSU, isotype BISH).

Note: The taxon *Humidicutis* is defined mainly on absence characters: no clamp connections in all tissues except on basidia, absence of some pigments (Desjardin & Hemmes 1997), and can hardly be sustained on these characters alone. However, the clamps on the basidia may represent an apomorph type (A.M. Young in prep.).

Hygrocybe perplexa (A.H. Smith & Hesler) Arnolds, *Persoonia* 12: 477. 1985.

Basionym: *Hygrophorus perplexus* A.H. Smith & Hesler, *Sydowia* 8: 328. 1954.

Holotype: USA, Michigan, Cheboygan Co., University of Michigan Biological Station, 26 June 1946, Brooks & A.H. Smith 21491 (MICH).

≡ *Gliophorus perplexus* (A.H. Smith & Hesler) Kovalenko 1989: 94, *Hygrocybe psittacina* var. *perplexa* (A.H. Smith & Hesler) Boertm. 1995: 82.

= *Hygrophorus sciophanus* (Fr.) Fr., *Hygrocybe sciophana* (Fr.) P. Karst.

Hygrocybe persistens (Britzelm.) Singer, *Revue de Mycologie* 5: 8. 1940.

Basionym: *Hygrophorus conicus* β *persistens* Britzelm., *Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg* 30: 30 (p. 200 in complete edition of *Hymenomyceten aus Südbayern*). 1890.

Type: Not designated. Protologue, with illustration (plate 446 no. 64), based on material from Germany, Bayern, near Augsburg.

≡ *Hygrophorus persistens* (Britzelm.) Britzelm. 1893: 15.

= *Hygrocybe acutoconica* (Clem.) Singer.

Notes: Moser (1983) erroneously quote the name as *Hygrocybe persistens* (Britzelm.) Britzelm. Cantrell & Lodge (2000) showed that Britzelmayr's combination in *Hygrophorus* was published earlier than *Mycena acutoconica* (Clem.), why the latter has priority.

Hygrocybe phaeococcinea (Arnolds) Bon, *Documents mycologiques* 15 (60): 38. 1985.

Basionym: *Hygrophorus phaeococcineus* Arnolds, *Persoonia* 9: 247. 1977.

Type: The Netherlands, Vlieland, Kroon's Polders, Oct. 31 1976, E. Arnolds 3710, (holotype WAG previously WBS, isotype L).

≡ *Pseudohygrocybe phaeococcinea* (Arnolds) Kovalenko 1988: 208.

Hygrocybe poilena (Desjardin & Hemmes) Boertm. comb. nov.

Basionym: *Humidicutis poilena* Desjardin & Hemmes, *Mycologia* 89: 629. 1997.

Type: USA, Hawai'i, Saddle Rd. at 19 mi kipuka, 14 Oct. 1995, D.E. Hemmes 917 (holotype SFSU, isotype BISH).

Note: See *Hygrocybe peleae* p. 54.

Hygrocybe polychroma Bougher & A.M. Young, Mycotaxon 63: 30. 1997.

Type: Australia, Western Australia, D'Entrecasteaux National Park, 6 June 1992, N. Bougher & K. Syme (holotype PERTH no. 04259645, isotype CSIRO no. E4756).

Hygrocybe pomona (Berk.) Manjula, Proceedings of the Indian academy of science (plant science) 92: 105. 1983.

Basionym: *Hygrophorus pomona* Berk., Hooker's Journal of Botany and Kew Garden Miscellany 4: 134. 1852.

Holotype: India, Moflong, Khassya, 1 July 1850, J.D. Hooker 10 (K). Studied by Manjula (1983).

Hygrocybe pratensis (Pers.: Fr.) Murrill (as "*Hydrocybe pratensis*"), Mycologia 6: 2. 1914.

Basionym: *Agaricus pratensis* Pers., Synopsis methodica fungorum: 304. 1801 (sanctioned in Systema mycologicum 1: 99. 1821).

Type: Not designated. Protologue based on material from Europe.

≡ *Hygrophorus pratensis* (Pers.: Fr.) Fr. 1836-1838: 326, *Camarophyllus pratensis* (Pers.: Fr.) P. Kumm. 1871: 117, *Cuphophyllus pratensis* (Pers.: Fr.) Bon 1984b: 10.

= *Agaricus fulvosus* Bolton (1788: pl. 56), *Agaricus pratensis* β. *ericosus a flavescens* Hornem. 1821: 13 (pl. 1735 fig. 1), *Hygrophorus pratensis* var. *flavescens* (Hornem.) Fr. in Lange (1887: 60), *Hygrophorus ficoides* (Bull. & Vent.) J. Schroet., *Hygrophorus suberosus* E. Jacobasch (1896: 145), *Camarophyllus pratensis* var. *gracilipes* R. Schulz .

Hygrocybe pratensis var. *donadinii* (Bon) Candusso, *Hygrophorus* s.l.: 348. 1997.

Basionym: *Cuphophyllus pratensis* var. *donadinii* Bon, Documents mycologiques 19 (76): 73. 1989.

Holotype: France, J.C. Donadini no. 345-80 (herb. M. Bon).

Hygrocybe pratensis var. *pallida* (Cooke) Arnolds, Persoonia 12: 447. 1985.

Basionym: *Hygrophorus pratensis* var. *pallida* Cooke, Grevillea 3 (20): 118. 1874.

Type: Not designated. Protologue based on material from UK, England.

≡ *Camarophyllus pratensis* var. *pallidus* (Cooke) J.E. Lange 1923: 18, *Cuphophyllus pratensis* var. *pallidus* (Cooke) Bon 1989b: 73.

= *Hygrocybe berkeleyi* (P. D. Orton) ex P.D. Orton & Watling, *Camarophyllus berkeleyanus* Clemençon 1982: 55, *Cuphophyllus berkeleyi* (P.D. Orton & Watling) Bon 1984b: 10, *Hygrophorus ortonii* (Bon) ex Dennis.

Notes: Cooke's protologue refer to Berkeley & Broome's (1873: 341 no. 1356) description of an unnamed var. of *Hygrophorus pratensis*, and this is why var. *pallida* sometimes and erroneously is quoted with Berkeley and Broome as authors (Orton 1960). Non *Hygrocybe pallida* (A.H. Smith) Singer.

Hygrocybe pratensis forma pallidifolia (Bon & Jamoni) Jamoni, *Funghi e Ambiente* 78-79: 62, 1999.

Basionym: *Cuphophyllus pratensis forma pallidifolius* Bon & Jamoni, *Documents mycologiques* 24 (95): 46, 1994.

Holotype: Italy, Monte Rosa, Bochetta delle Pisse, 32 (sic) Aug. 1990, P.G. Jamoni, GMFN no. 2066 (LIP).

Hygrocybe pratensis forma vitulina (Pers.) Bon, *Documents mycologiques* 9 (35): 44. 1979.

Basionym: *Agaricus pratensis* δ . *Ag. vitulinus* Pers., *Synopsis methodica fungorum* 2: 305. 1801.

Type: Not designated. Protologue based on material from Europe.

≡ *Hygrocybe pratensis var. vitulina* (Pers.) Bon 1976b: 21 invalidly published (no basionym, Art. 33.3), *Cuphophyllus pratensis var. vitulinus* (Pers.) Bon 1984b: 10.

Hygrocybe prieta Lodge & Pegler, *Mycological Research* 94: 453. 1990.

Holotype: Puerto Rico, El Verde Research Area, Luquillo Experimental Forest, 29 Aug. 1985, L. Prieto & D.J. Lodge PR-13B (K no. M869).

Hygrocybe procera (G. Stev.) E. Horak, *New Zealand Journal of botany* 9: 446. 1971.

Basionym: *Hygrophorus procerus* G. Stev., *Kew Bulletin* 16: 380. 1963.

Holotype: New Zealand, Wellington, Keith George Park, 15 June 1949, G. Stevenson 643 (K). Studied by Horak (1973).

≡ *Hygrocybe procera* (G. Stev.) E. Horak 1973: 151 superfluous combination, *Pseudohygrocybe procera* (G. Stev.) Kovalenko 1988: 209.

Hygrocybe proteus Singer, *Beihefte zur Nova Hedwigia* 29: 14. 1969.

Holotype: Chile, Valdivia, Cordillera Pelada, Mirador, 30 Apr. 1967, R. Singer M-6560 (SGO).

Hygrocybe pseudoamylospora Singer, *Fieldiana, Botany N.S.* 21: 6. 1989.

Holotype: Ecuador, Tungurahua, Rio Topo, 30 Apr. 1973, R. Singer B-7190 (F).

Hygrocybe pseudoconica J.E. Lange, *Dansk Botanisk Arkiv* 4 (4): 24. 1923.

Syntypes: Denmark, Fyn, Kirkeby, Nov. 1916, and Lundeborg, Aug. 1917, J.E. Lange. Only extant material are the illustrations in the protologue (plate 1 fig. i and plate 2 fig. *Hygrocybe* 7) and their originals (C). These are without indication of which of the syntypes they represent.

≡ *Hygrocybe conica forma pseudoconica* (J.E. Lange) Arnolds 1985b: 476, *Hygrocybe conica var. pseudoconica* (J.E. Lange) Kühner 1977a: 90 invalidly published (no basionym, Art. 33.3).

Hygrocybe pseudograminicolor A.M. Young, in A.M. Young & A.E. Wood: *Australian Systematic Botany* 10: 992. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 26 Mar. 1994, F. Taeker (UNSW no. 94/22).

Hygrocybe pseudosciophana Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 455. 1963.

Holotype: Zaire, Distr. Forestier Central, Binga, Oct. 1934, M. Goossens-Fontana 997 (BR). Supplementary type description by Heinemann (1966).

Hygrocybe psittacina (Schaeff.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 112. 1871.

Basionym: *Agaricus psittacinus* Schaeff., Fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones nativis coloribus expressae nativis coloribus expressae tomus quartus et ultimus: 70, plate 301. 1774 (sanctioned in *Systema mycologicum* 1: 102. 1821).

Type: Not designated. Protologue based on material from Germany, Bayern.

≡ *Hygrophorus psittacinus* (Schaeff.: Fr.) Fr. 1836-1838: 332, *Gliophorus psittacinus* (Schaeff.: Fr.) Herink 1958: 82.

Hygrocybe psittacina var. *abietina* (Heim) Bon, Documents mycologiques 19 (76): 74. 1989.

Basionym: *Hygrophorus psittacinus* var. *abietinus* R. Heim, Bulletin de la Société Mycologique de France 63: 132 (description in French p. 131). 1947.

Holotype: France, Jura, Doubs, near Lougres, 6 Sept. 1945, R. Heim & G. Becker, herbarium not indicated.

≡ *Hygrocybe psittacina* var. *abietina* (Heim) Bon 1976b: 16 invalidly published (no basionym, Art 33.2).

Hygrocybe psittacina forma *opima* R. Schulz, in Michael & R. Schulz, Führer für Pilzfreunde, Ausgabe B, II: no. 234. 1926.

Type: Not designated. Protologue, with illustration (plate no. 234), based on material from Germany.

= *Hygrocybe psittacina* (Schaeff.: Fr.) P. Kumm.

Hygrocybe puaena Desjardin & Hemmes, Mycologia 89: 633. 1997.

Type: USA, Hawai'i, Moloka'i, Kamakou Forest Preserve, Hanalilolilo Trail, 9 Jan. 1995, D.E. Hemmes 714 (holotype SFSU, isotype BISH).

Hygrocybe puellaris (Hongo) Hongo, Transactions of the mycological society of Japan 30: 502. 1989.

Basionym: *Hygrophorus puellaris* Hongo, Bulletin of the National Science Museum, Tokyo 16: 542. 1973.

Holotype: Papua New Guinea, West Sepik, Oksapmin, 15 Dec. 1971, Y. Kobayasi 6074 (TNS).

Hygrocybe pulcherrima Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 308. 1889.

Type: Not designated. Protologue based on material from Switzerland.

Note: Non *Hygrophorus pulcherrimus* Velen. (1920).

Hygrocybe pumanquensis Singer, in Lazo: *Lejeunia* N.S. 61: 9. 1971.

Holotype: Chile, Colchagua, Pumanque, W. Lazo PU-85 (NY).

Hygrocybe punicea (Fr.: Fr.) P. Kumm., *Der Führer in die Pilzkunde*: 112. 1871.

Basionym: *Agaricus puniceus* Fr.: Fr., *Systema mycologicum* 1: 104. 1821.

Type: Not designated. Protologue based on material from Sweden.

≡ *Hygrophorus puniceus* (Fr.: Fr.) Fr. 1836-1838: 331, *Godfrinia punicea* (Fr.: Fr.) Herink 1958: 68, *Pseudohygrocybe punicea* (Fr.: Fr.) Kovalenko 1988: 208.

Hygrocybe pura (Peck) Murrill (as "*Hydrocybe pura*"), *North American Flora* 9: 377. 1916.

Basionym: *Hygrophorus purus* Peck, Twenty-sixth annual report of the New York State Museum of Natural History: 63. 1874.

Holotype: USA, New York State, Lewis Co., Crogham, C.H. Peck (NYS). Studied by Hesler & Smith (1963) and Horak (1990).

≡ *Humidicutis pura* (Peck) E. Horak 1990: 294.

= *Hygrocybe mavis* (G. Stev.) E. Horak (Horak 1990).

Hygrocybe purpurea (Beeli) Heinem., *Bulletin du jardin botanique de l'état. Bruxelles* 33: 447. 1963.

Basionym: *Clitocybe purpurea* Beeli, *Bulletin de la société royale de botanique de Belgique* 66: 21. 1933.

Holotype: Zaire, Distr. Forestier Central, Binga, May 1927, M. Goossens-Fontana 603 (BR). Studied by Heinemann (1963, 1966) and Pegler & Fiard (1978).

Hygrocybe purpureofolia (H.E. Bigelow) Courtec., *Cryptogamie - Mycologie* 10: 193. 1989.

Basionym: *Hygrophorus purpureofolius* H. E. Bigelow, in Bigelow & Barr: *Rhodora* 62: 190. 1960.

Holotype: USA, Massachusetts, Savoy Mt State Forest, 7 Aug. 1957, H.E. Bigelow 8363 (MASS). Studied by Hesler & Smith (1963).

Hygrocybe pusilla (Peck) Murrill (as "*Hydrocybe pusilla*"), *North American Flora* 9: 377. 1916.

Basionym: *Hygrophorus pusillus* Peck, *Bulletin of the Torrey Botanical Club* 29: 69. 1902.

Holotype: USA, Idaho, Moscow Mountains, Nov., L.F. Henderson 5200 (NYS). Studied by Hesler & Smith (1963).

Note: Non *Hygrophorus pusillus* Velen. (1920) illegitimate name.

Hygrocybe quieta (Kühner) Singer, *Lilloa* 22: 152. 1951 "1949".

Basionym: *Hygrophorus quietus* Kühner, *Annales Scientifiques de Franche-Comté* 2: 31 (description in French p. 19). 1947.

Type: Not designated. Protologue based on material from France.

= *Hygrocybe obrussea* (Fr.: Fr.) Wünsche (Arnolds 1986d).

Hygrocybe radiata Arnolds, Persoonia 14: 44. 1989.

Holotype: The Netherlands, Voorst, dike along river Ijssel, 15 Aug. 1978, H. & G. Piepenbroek 57 (WAG, previously WBS).

≡ *Cuphophyllus radiatus* (Arnolds) Bon 1990b: 40.

= Probably *Camarophyllus rigelliae* Velen., *Hygrocybe flavipes* (Britzelm.) Bon, *Hygrocybe lacmus* (Schumach.) P.D. Orton & Watling (both Krieglsteiner 2000).

Hygrocybe reai (Maire) J.E. Lange, Dansk Botanisk Arkiv 4 (4): 25. 1923.

Basionym: *Hygrophorus reai* Maire, Transactions. The British Mycological Society 3: 170. 1910.

Type: UK, England, Millstone grit near Baslow, Chatsworth Park, R. Maire. Probably not preserved. Only illustration in protologue (plate 11) extant. Material collected by Maire in France (K) could be selected as epitype.

≡ *Gliophorus reai* (Maire) Herink 1958: 82 invalidly published (no basionym, Art. 33.3), *Gliophorus reai* (Maire) Kovalenko (as *G. "reae"*) 1988: 209.

= *Hygrocybe mucronella* (Fr.) P. Karst. (Boertmann 1995).

Hygrocybe reai var. *mite* Kühner, Bulletin de la Société Mycologique de France 92: 463. 1976 (description in French vol. 93: 58. 1977).

Holotype: France, Vanoise, near Pralognan, La Glière, 12 Sept. 1971, R. Kühner 71-148 (herb. R. Kühner).

Hygrocybe reai var. *siccipes* Bon (as *H. "reae" var. siccipes*) in Bon & B. Lefebvre: Documents mycologiques 30 (119): 24. 2000.

Holotype: France, Somme, Saint-Valery-sur-Somme, La Garenne (MEN 2107-B), Dec. 1968 (LIP no. MB-81217).

Hygrocybe reesia A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 923. 1997.

Holotype: Australia, New South Wales, Gore Park Nature Reserve, 17 June 1990, R. Kearney & B. Rees (UNSW no. 90/205).

Hygrocybe reidii Kühner, Bulletin de la Société Mycologique de France 92: 463. 1976 (description in French p. 497).

Holotype: France, R. Kühner 58-43 (herb. R. Kühner).

≡ *Pseudohygrocybe reidii* (Kühner) Kovalenko 1989: 56.

Note: Epithet in latin diagnosis spelled "*reiddi*".

Hygrocybe rhodoleuca Singer, Beihefte zur Sydowia 7: 6. 1973.

Holotype: Brazil, Paraibo, João Pessôa, 11 July 1960, R. Singer B-3345 (LIL and BAFC).

Hygrocybe rhodophylla Kühner, Bulletin de la Société Mycologique de France 92: 462 (description in French p. 496). 1976.

Holotype: France, Col du Petit St Bernard, 29 Aug. 1974, R. Kühner 74-21 (herb. R. Kühner).

≡ *Hygrocybe substrangulata* var. *rhodophylla* (Kühner) Boertm. 1995: 108.

Hygrocybe riparia Kreisel, Westfälische Pilzbriefe 2: 112. 1960.

Type: Germany, Mecklenburg, near Neustad-Glewe, 2 Nov. 1958, H. Kreisel (holotype herb. H. Kreisel, isotype M).

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. s.l. (Boertmann 1995).

Hygrocybe rodwayi (Masse) A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 923. 1997.

Basionym: *Hygrophorus rodwayi* Masse, Bulletin of miscellaneous information. Royal Gardens, Kew 153-154: 178. 1899.

Holotype: Australia, Tasmania, Hobart, Kingston, no date, Rodway 137 (K). Studied by Monks & Mills (1991).

≡ *Camarophyllus rodwayi* (Masse) A. Monks & A.K. Mills 1991: 13.

Hygrocybe rosea Murrill (as "*Hydrocybe rosea*"), Mycologia 3: 197. 1911.

Holotype: Jamaica, Sir John Peak, 5 Jan. 1909, W.A. Murrill 811 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus roseus* (Murrill) Murrill 1912b: 332.

Hygrocybe roseiceps Murrill (as "*Hydrocybe roseiceps*"), Lloydia 5: 138. 1942.

Holotype: USA, Florida, Gainesville, Planera Hammock, 13 Feb. 1939, E. West F 18737 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus roseiceps* (Murrill) Murrill 1942: 157.

= *Hygrocybe laeta* (Pers.: Fr.) P. Kumm. (Hesler & Smith 1963).

Hygrocybe rosella E. Horak, Beihefte zur Nova Hedwigia 43: 133. 1973.

Type: New Zealand, Westland, Ngahere, Red Jack Valley, 21 Mar. 1968, E. Horak (holotype PDD no. 27078, isotype ZT no. 68/200). Supplementary type description by Horak (1990).

≡ *Humidicutis rosella* (E. Horak) E. Horak 1990: 295 illegitimate name.

Note: Non *Humidicutis rosella* (Speg.) Singer 1969: 23.

Hygrocybe roseostriata (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 60. 1986.

Basionym: *Hygrophorus roseostriatus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 564. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Dec. 1868, Thwaites 812. Only extant material is an unpublished original painting (K) studied by Pegler (1986).

= *Hygrophorus pygmaeus* Berk. & Broome (Pegler 1986), *Hygrophorus bicolor* Berk. & Broome (Pegler 1986), *Hygrophorus glanduliformis* Berk. & Broome (Pegler 1986).

Hygrocybe ruber (Peck) Murrill (as "*Hydrocybe ruber*"), North American Flora 9: 379. 1916.

Basionym: *Hygrophorus ruber* Peck, New York State Museum Bulletin 116: 32. 1907.

Syntypes: USA, Massachusetts, Ellis, Stow and Cohasset, Sept., G.E. Morris (NYS), material apparently missing (Index to C.H. Peck's types), although Ellis' material studied by Hesler & Smith (1963).

Hygrocybe rubrocarnosa (G. Stev.) E. Horak, New Zealand Journal of botany 9: 452. 1971.

Basionym: *Hygrophorus rubrocarnosus* G. Stev., Kew Bulletin 16: 379. 1963.

Holotype: New Zealand, Wellington, Levin, 22 May 1949, G. Stevenson 568 (K). Studied by Horak (1973, 1990).

≡ *Hygrocybe rubrocarnosa* (G. Stev.) E. Horak 1973: 143 superfluous combination.

Hygrocybe rubroflava Singer, Beihefte zur Sydowia 7: 6. 1973.

Holotype: Columbia, Valle, Buenaventura, San Joaquín, 22 Apr. 1968, R. Singer B-6276 (F).

Hygrocybe rubrolutea A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 947. 1997.

Holotype: Australia, Queensland, Blackbutt, 8 Apr. 1988, A.M. Young (BRIP no. 22519).

Hygrocybe rubronivea A.M. Young, Australasian Mycologist 19 (3): 94. 2001 ("2000").

Holotype: Australia, New South Wales, Lane Cove Bushland Park, 7 June 1998, R. & E. Kearney (A.M. Young no. 2078) (BRI).

Hygrocybe russocoriacea (Berk. & T.K. Mill.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus russocoriaceus* Berk. & T.K. Mill. in Berk. & Broome, Annals and magazine of natural history. Second series 2: 261. 1848.

Type: UK, England, Notts, Walkeringham, Oct.-Dec., material in K probably syntype.

≡ *Camarophyllus russocoriaceus* (Berk. & T.K. Mill.) J.E. Lange 1923: 20, *Cuphophyllus russocoriaceus* (Berk. & T.K. Mill.) Bon 1984b: 11.

= *Hygrophorus lawrencei* Hesler & A.H. Smith (Largent 1985b).

Hygrocybe salicis-herbacea Kühner, Bulletin de la Société Mycologique de France 92: 462. 1976 (description in French vol. 93: 60. 1977).

Holotype: France, Vanoise, Col de l'Iseran, zone Petit Plan-Grand Plan, 25 Aug. 1973, R. Kühner 73-303 (herb. R. Kühner).

Hygrocybe saltirivula A.M. Young, Muelleria 14: 60. 2000.

Holotype: Australia, Victoria, Warrandyte State park, 23 May 1996, B.A. Fuhrer 2053 (MEL 2063200).

Hygrocybe sanguineocrenulata A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 995. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 28 Apr. 1982, A.E. Wood (UNSW no. 82/187).

Hygrocybe schulzeri (Bres.) Joss., Bulletin de la Société Mycologique de France 53: 206. 1937. See *Camarophylloopsis schulzeri* p. 77.

Hygrocybe sciophana (Fr.: Fr.) Wünsche, Die Pilze: 114. 1877.

Basionym: *Hygrophorus sciophanus* Fr.: Fr., Systema mycologicum 1: 102. 1821.

Type: Not designated. Protologue based on material from Sweden.

≡ *Gliophorus sciophanus* (Fr.: Fr.) Herink 1958: 82.

= *Hygrocybe perplexa* (A.H. Smith & Hesler) Arnolds, *Hygrocybe psittacina* var. *perplexa* (A.H. Smith) Boertm.

Hygrocybe sciophana forma minor (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91, 1982.

Basionym: *Hygrophorus sciophanus forma minor* Hongo, Journal of Japanese Botany 33: 138, 1958.

Type: Japan, Shiga, Ôtsu-city, Chausuyama, 3 Dec. 1951, T. Hongo, herb. not indicated.

Hygrocybe sciophanoides (Rea) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 131. 1969.

Basionym: *Hygrophorus sciophanoides* Rea, British Basidiomycetae: 303. 1922.

Type: Not designated. Cooke's (1881-1891) plate 937 (905) fig. A (as "*Hygrophorus sciophanus*") from UK (England, Kendal) quoted in protologue.

= Probably *Hygrocybe psittacina* (Schaeff.: Fr.) P. Kumm.

Hygrocybe sciophanoides var. *carneoviolacea* B. Lefebvre, Documents mycologique 31 (121): 25. 2001.

Holotype: France, Pas-de-Calais, Hénu, 24 Nov.-20 Dec. 2000, MB 00111 (LIP).

Hygrocybe siccitatopapillata A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 947. 1997.

Holotype: Australia, New South Wales, Lawson, 30 May 1992, A.E. Wood (UNSW no. 92/210).

Hygrocybe similis (Petch) Pegler, Agaric flora of Sri Lanka: 61. 1986.

Basionym: *Hygrophorus similis* Petch, Annals of the Royal Botanic Garden Peradeniya 7: 280. 1922.

Holotype: Sri Lanka, Central Prov., Nuwara Eliya Distr., Hakgala, Jan. 1918, Petch 5580 (K). Studied by Pegler (1986).

= *Hygrophorus ceraceus* var. *moschatus* Berk. & Broome (Pegler 1986).

Hygrocybe singeri (A.H. Smith & Hesler) Singer, Sydowia 11: 355. 1957.

Basionym: *Hygrophorus singeri* A.H. Smith & Hesler, Sydowia 8: 331. 1954.

Holotype: USA, Oregon, Mt Hood, Salmon River, East Fork, no date, B. Gruber (A.H. Smith 19162) (MICH).

Hygrocybe siparia (Berk.) Singer, *Atas do instituto de micologia* 2: 17. 1965.

Basionym: *Hygrophorus siparius* Berk., *Hooker's Journal of Botany and Kew Garden Miscellany* 8: 134. 1856.

Holotype: Brazil, São Jeronimo, Panuré, Feb. 1853, Spruce 130 (K). Studied by Pegler & Fiard (1978).

Hygrocybe spadicea (Scop.) P. Karst. (as "*Hydrocybe spadicea*"), *Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk* 32): 237. 1879.

Basionym: *Agaricus spadiceus* Scop., *Flora Carniolica* 2 (ed. 2): 443. 1772.

Type: Not designated. Protologue based on material from Slovenia, Kranj.

≡ *Hygrophorus spadiceus* (Scop.) Fr. 1836-1838: 332, *Godfrinia spadicea* (Scop.) Herink 1958: 66 invalidly published (no basionym, Art. 33.3).

Hygrocybe spadicea var. *albifolia* (Hesler & A.H. Smith) Boertm., *The genus Hygrocybe*: 151. 1995.

Basionym: *Hygrophorus spadiceus* var. *albifolius* Hesler & A.H. Smith, *North American Species of Hygrophorus*: 123. 1963.

Holotype: USA, Tennessee, near Knoxville, 7 Oct. 1957, Hesler 22705 (TENN).

Hygrocybe splendidissima (P.D. Orton) M.M. Moser, *Die Röhrlinge und Blätterpilze (Agaricales)*, 3. aufl.: 67. 1967.

Basionym: *Hygrophorus splendidissimus* P.D. Orton, *Transactions. The British Mycological Society* 43: 265. 1960.

Holotype: UK, England, Devon, Membury, 29 Oct. 1957, P.D. Orton (K).

≡ *Hygrocybe punicea* forma *splendidissima* (P.D. Orton) Reid 1972: 1, *Hygrocybe punicea* var. *splendidissima* (P.D. Orton) Krieglst. 1992: 176.

Hygrocybe squalida (Lasch: Fr.) P. Kumm., *Führer in die Pilzkunde*: 112. 1871.

Basionym: *Agaricus squalidus* Lasch, *Linnaea* 3: 380. 1828 (sanctioned in *Index alphabeticus*: 42, 1832).

Type: Not designated. Protologue based on material from Germany, Brandenburg collected in Oct.

≡ *Hygrophorus squalidus* (Lasch) Fr. 1836-1838: 332.

Hygrocybe squamulosa (Ellis & Everh.) Arnolds, *Mycotaxon* 53: 17. 1995.

Basionym: *Hygrophorus squamulosus* Ellis & Everh., *North American Fungi. Century XX. Second Series*, nr. 1912. 1888.

Type: USA, New Jersey, Newfield, Aug. 1887, J.B. Ellis & B.M. Everhart 1912, location of holotype not indicated, but isotypes at several herbaria as MICH and K.

≡ *Camarophyllus squamulosus* (Ellis & Everh.) Murrill 1916a: 388, *Hygrophorus miniatus* var. *firmus* A.H. Smith & Hesler 1942: 27 (Hesler & Smith 1963).

Note: A later publication is usually quoted as protologue (e.g. Arnolds 1995): *Proceedings of the Academy of Natural Sciences of Philadelphia* 1893: 440. 1894.

Hygrocybe squarrosa (E. Horak) Boertm. comb. nov.

Basionym: *Neohygrocybe squarrosa* E. Horak, Beihefte zur Nova Hedwigia 43: 127. 1973.

Type: New Zealand, Stewart Island, Ulva Island, 23 Mar. 1969, E. Horak (holotype PDD no. 27077, isotype ZT no. 69/164). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe stevensoniae T.W. May & A.E. Wood, Mycotaxon 54: 148. 1995 (nomen novum).

Replaced synonym: *Hygrophorus viridis* G. Stev., Kew Bulletin 16: 383. 1963.

Holotype: New Zealand, Wellington, Levin, 26 June 1948, G. Stevenson 338 (K).

≡ *Gliophorus viridis* (G. Stev.) E. Horak 1971: 462, *Gliophorus viridis* (G. Stev.) E. Horak 1973: 173 superfluous combination, *Hygrocybe viridis* (G. Stev.) A.M. Young 1994: 80 invalidly published (no basionym, Art. 33.3) and illegitimate name.

Notes: Non *Hygrocybe viridis* Capelari & Maziero (1988).

Hygrocybe stipularis (Fr.: Fr.) Fayod, Annales des sciences naturelles, septième séries. Botanique 9: 309. 1889.

Basionym: *Agaricus stipularis* Fr.: Fr., Systema mycologicum 1: 160. 1821.

Type: Not designated. Protologue based on material from Sweden.

≡ *Mycena stipularis* (Fr.: Fr.) Quél. 1872: 110.

= *Mycena pterigena* (Fr.: Fr.) P. Kumm. (Geesteranus 1985).

Hygrocybe strangulata (P.D. Orton) Svrček, Česká Mykologie 16: 167. 1962.

Basionym: *Hygrophorus strangulatus* P.D. Orton, Transactions. The British Mycological Society 43: 266. 1960.

Type: UK, England, Surrey, Witley Common, 5 Nov. 1958, P.D. Orton (holotype K, isotype E). Studied by Arnolds (1986d).

≡ *Hygrocybe strangulata* (P.D. Orton) Singer in Lazo 1971: 10 superfluous combination.

= *Hygrocybe miniata* (Fr.: Fr.) P. Kumm. (Arnolds 1986d).

Hygrocybe streptopus (Fr.) Bon, Documents mycologiques 6 (24): 43. 1976.

Basionym: *Hygrophorus streptopus* Fr., Epicrisis systematis mycologici seu synopsis hymenomycetum: 328. 1836-1838.

Type: Not designated. Protologue based on material from Europe.

≡ *Camarophyllus streptopus* (Fr.) Karst. 1879: 227, *Hygrophorus clivalis* var. *streptopus* (Fr.) Quél. 1888: 258, *Hygrophorus fornicatus* var. *streptopus* (Fr.) Bat. 1910: 45, *Hygrocybe streptopus* (Fr.) Bon 1970: 174 invalidly published (no reference to publication of basionym, Art. 33.3), *Hygrocybe streptopus* (Fr.) Singer & Kuthan 1976: 7 illegitimate name, *Hygrocybe fornicata* var. *streptopus* (Fr.) Arnolds 1985b: 476, *Neohygrocybe fornicata* var. *streptopus* (Fr.) Kovalenko 1989: 39.

Notes: Fries (1836-1838) described *Hygrophorus streptopus* based on an earlier and invalid description by Secretan (1833, suppressed, Art. 32.7). Later Fries (1851) described *Hygrophorus streptopus* again. Singer & Kuthan (1976)

interpreted these two descriptions as two different taxa and described the 1851 taxon as a new species: *Hygrocybe streptopus* Singer & Kuthan, although the name was invalidly published (no type designated). However, Fries (1851) refer to his 1838 description, why the two names have the same type and in a nomenclatorial respect are the same taxon (Arnolds 1985b). Singer & Kuthan's (1976) action has later been accepted as a new combination (Arnolds 1990), although it is not specifically indicated as such. It is, however, a later homonym of *Hygrocybe streptopus* (Fr.) Bon (IF 4: 409).

Hygrocybe striatella Singer, Beihefte zur Nova Hedwigia 29: 20. 1969.

Holotype: Chile, Valdivia, near Hueycolla, 4 May 1967, R. Singer M-6732 (SGO).

Hygrocybe striatolutea E. Horak, Beihefte zur Nova Hedwigia 43: 137. 1973.

Type: New Zealand, Nelson, Collingwood, Kaihoka Reserve, 10 May 1968, E. Horak (holotype PDD no. 27081, isotype ZT no. 68/417). Supplementary type description by Horak (1990).

Hygrocybe subacuta (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus subacutus* Hongo, Reports of the Tottori mycological institute 16: 59. 1978.

Holotype: Japan, Bonin Islands, Chichijima, Chûôzan, 27 Nov. 1977, T. Hongo B236 (TNS).

Hygrocybe subalba Bon & Réaudin, in Bon: Documents mycologiques 23 (92): 48. 1994.

Holotype: France, Amoric, near Tregastel (herb. M. Bon 92218).

Hygrocybe subcaespitosa Murrill (as "*Hydrocybe subcaespitosa*"), Mycologia 3: 197. 1911.

Holotype: Jamaica, Morce's Gab, 29-30 Dec. 1908 - 2 Jan. 1909, W.A. & E.L. Murrill 750 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus subcaespitosus* (Murrill) Murrill 1912b: 332, *Hygrocybe subcaespitosa* (Murrill) Lodge & Pegler 1990: 454 superfluous combination.

Hygrocybe subceracea Murrill (as "*Hydrocybe subceracea*"), Journal of the Elisha Mitchell scientific society 55: 371. 1939.

Holotype: USA, Florida, Newnan's Lake, 15 Nov. 1938, E. West & W.A. Murrill F-18374 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus subceraceus* (Murrill) Murrill 1939b: 372.

= *Hygrocybe ceracea* (Fr.: Fr.) P. Kumm. (Arnolds 1986d).

Hygrocybe subcinnabarina (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus subcinnabarinus* Hongo, Journal of Japanese Botany 35: 83. 1960.

Holotype: Japan, Shiga, Seta-chô, 5 Oct. 1958, T. Hongo (herb. T. Hongo).

Hygrocybe subflavida Murrill (as "*Hydrocybe subflavida*"), Mycologia 3: 197. 1911.

Holotype: Jamaica, Chester Vale, 23 Dec. 1908, W.A. & E.L. Murrill 369 (NY). Studied by Dennis (1953a) and Hesler & Smith (1963).

≡ *Hygrophorus subflavidus* (Murrill) Murrill 1912b: 332, *Hygrocybe subflavida* (Murrill) Pegler 1983: 58 superfluous combination.

Hygrocybe subglobispora (P.D. Orton) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales) 3. aufl.: 67. 1967.

Basionym: *Hygrophorus subglobisporus* P.D. Orton, Transactions. The British Mycological Society 43: 267. 1960.

Holotype: UK, England, Surrey, Polesden Lacey, 14 Oct. 1958, P.D. Orton (K).

≡ *Hygrocybe persistens forma subglobispora* (P.D. Orton) Boertm. 1995: 156, *Hygrocybe persistens var. subglobispora* (P.D. Orton) Krieglst. et al. 2000: 30.

Hygrocybe subglobispora forma aurantiorubra Arnolds, Persoonia 12: 477, 1985b.

Holotype: The Netherlands, Noord-Brabant, Drunen, Drogelens Kanaal, 26 Oct. 1975, Arnolds 3478 (WAG, previously WBS).

= *Hygrocybe amoena forma silvatica* R. Haller Aar. nomen nudum (Arnolds 1986b).

Hygrocybe subheteromorpha Singer, Beihefte zur Nova Hedwigia 29: 12. 1969.

Holotype: Chile, Concepción, Boca del Bio-Bio, 17 Nov. 1967, R. Singer M-7818 (SGO no. 92605).

≡ *Gliophorus subheteromorphus* (Singer) E. Horak 1973: 166.

Hygrocybe subminiata Murrill (as "*Hydrocybe subminiata*"), Mycologia 3: 198. 1911.

Holotype: Jamaica, Chester Vale, 23 Dec. 1908, W.A. & E.L. Murrill 369 (NY). Studied by Hesler & Smith (1963).

≡ *Hygrophorus subminiatus* (Murrill) Murrill 1912b: 332.

Hygrocybe subminutula Murrill (as "*Hydrocybe subminutula*"), Bulletin of the Torrey Botanical Club 67: 233. 1940.

Holotype: USA, Florida, Sugarfoot Hammock near Gainesville, 7 Nov. 1938, W.A. Murrill F-18392 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus subminutulus* (Murrill) Murrill 1940: 235, *Hygrophorus subminutulus* (Murrill) P.D. Orton 1960: 176 superfluous combination, *Hygrocybe subminutula* (Murrill) Pegler 1983: 61 superfluous combination, *Gliophorus subminutulus* (Murrill) Kovalenko 1988: 209.

Hygrocybe subpapillata Kühner, Beihefte zur Sydowia 8: 248. 1979.

Holotype: France, Doubs, Chaîne du Jura, le Narbief, aux environs du Russey, 26 Aug. 1938, R. Kühner 38-35 (herb. R. Kühner).

Hygrocybe subpsittacina (Rick) Raitelh., *Metrodiana* 19: 41. 1992.

Basionym: *Hygrophorus subpsittacinus* Rick (as *H. "subpsittacinus"*), *Lilloa* 2: 306. 1938.

Type: Not designated. Protologue based on material from Brasil, Rio Grande do Sul.

Hygrocybe subradiata (Schumach.) P.D. Orton & Watling, *Notes from the Royal Botanic Garden Edinburgh* 29: 131. 1969.

Basionym: *Agaricus subradiatus* Schumach., *Enumeratio plantarum in partibus Sællandiaë septemtrionalis et orientalis*. 2: 267. 1803.

Type: Not designated. Protologue based on material from Denmark.

≡ *Hygrophorus subradiatus* (Schumach.) Fr. 1836-1838: 328, *Camarophyllus subradiatus* (Schumach.) Wünsche 1877: 114, *Cuphophyllus subradiatus* (Schumach.) Bon 1984b: 11.

= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling (Rald & Boertmann 1988).

Note: An unpublished painting by Schumacher (C) show that this taxon is weathered specimens of *Hygrocybe virginea* (Rald & Boertmann 1988).

Hygrocybe subruber Murrill (as "*Hydrocybe subruber*"), *Bulletin of the Torrey Botanical Club* 66: 159. 1939.

Holotype: USA, Florida, South Planera Hammock NW of Gainesville, 26 Oct. 1938, West & W.A. Murrill F-18299 (FLAS).

≡ *Hygrophorus subruber* (Murrill) Murrill 1939a: 160.

= *Hygrocybe acutoconica* (Clem.) Singer (Hesler & Smith 1963).

Hygrocybe substrangulata (P.D. Orton) P.D. Orton & Watling, *Notes from the Royal Botanic Garden Edinburgh* 29: 131. 1969.

Basionym: *Hygrophorus substrangulatus* P.D. Orton, *Transactions. The British Mycological Society* 43: 269. 1960.

Holotype: UK, England, Dorset, Studland, 17 Nov. 1958, P.D. Orton (K).

≡ *Pseudohygrocybe substrangulata* (P.D. Orton) Kovalenko 1988: 208.

= *Hygrocybe biminiata* Kühner (Boertmann 1995), *Hygrocybe coccineocrenata forma ambigua* Kühner (Boertmann 1995).

Hygrocybe subviolacea (Peck) P.D. Orton & Watling, *Notes from the Royal Botanic Garden Edinburgh* 29: 132. 1969.

Basionym: *Hygrophorus subviolaceus* Peck, *New York State Museum. 53d annual report of the regents* 1899: 842. 1901.

Holotype: USA, New York State, Meadowdale, October, C.H. Peck (NYS). Studied by Hesler & Smith (1963).

≡ *Camarophyllus subviolaceus* (Peck) Singer 1951a: 148, *Cuphophyllus subviolaceus* (Peck) Bon 1984b: 11.

= *Hygrocybe lacmus* (Schumach.) P.D. Orton & Watling.

Notes: Murrill (1916a) refer the publication year for the protologue as 1900.

Hygrocybe subvitellina (S. Imai) S. Ito (as *H. "subviterrina"*), Mycological Flora of Japan 2 (5): 79. 1959.

Basionym: *Hygrophorus subvitellinus* S. Imai, The Botanical Magazine, Tokyo 55: 448. 1941.

Holotype: Japan, Honshu, Kai, Oshino-mura, 6 Oct. 1940, S. Imai, herb. not indicated.

Hygrocybe sulcata P. Karst., Hedwigia 35: 43. 1896.

Holotype: Finland, Mustiala, without date, J. I. Lindroth (H no. 4312) (S. Huhtinen pers. comm.).

= *Hygrocybe laeta* (Pers.: Fr.) P. Kumm.

Hygrocybe sulphurea (G. Stev.) Boertm. comb. nov.

Basionym: *Omphalina sulphurea* G. Stev., Kew Bulletin 19: 12. 1964.

Holotype: New Zealand, Wellington, Botanic Garden, 12 Aug. 1949, G. Stevenson 750 (K).

≡ *Gliophorus sulphureus* (G. Stev.) E. Horak 1990: 283.

= *Gliophorus bichromus* E. Horak (Horak 1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe suzukaensis (Hongo) Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 32: 91. 1982.

Basionym: *Hygrophorus suzukaensis* Hongo, Memoirs of the Faculty of Education Shiga University. Natural Science 12: 39. 1962.

Holotype: Japan, Shiga, Mt Watamuki, 23 Aug. 1961, T. Hongo 2316 (herb. T. Hongo).

Hygrocybe swanetica Singer, Beihefte zum Botanischen Centralblatt 48. Zweite abt.: 522. 1931.

Syntypes: Georgia, Swanetia, Nákra River, Khä, Aug.-Sept. 1928, R. Singer, herbarium not indicated.

≡ *Pseudohygrocybe swanetica* (Singer) Kovalenko 1988: 209.

Hygrocybe sylvaria A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 999. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 22 June 1981, A.E. Wood (UNSW no. 81/321).

Hygrocybe taekeri A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1002. 1997.

Holotype: Australia, New South Wales, Royal National Park, Bola Creek, 14 Apr. 1984, F. Taeker (UNSW no. 84/397).

Hygrocybe tidbillensis A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1004. 1997.

Holotype: Australia, Australian Capital Territory, Tidbinbilla Nature Reserve, 6 May 1990, A.E. Wood (UNSW no. 90/163).

Hygrocybe transformabilis Singer, Beihefte zur Sydowia 7: 5. 1973.

Holotype: Argentina, Tucumán, Sierra de San Javier, Ciudad Universitaria, 20 Dec. 1958, R. Singer T-3149 (F).

Hygrocybe tricolor (Berk. & Broome) Pegler, Agaric flora of Sri Lanka: 57. 1986.

Basionym: *Hygrophorus tricolor* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 566. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Nov. 1868, Thwaites 794 (K). Studied by Pegler (1986).

Hygrocybe tricoloroides Pegler, Agaric Flora of Sri Lanka: 62. 1986.

Holotype: Sri Lanka, Western Prov., Colombo Distr., Henaratgoda, July 1917, Petch 5227 (K).

Hygrocybe trinitensis (Dennis) Pegler, in Pegler & Fiard: Kew Bulletin 32: 306. 1978.

Basionym: *Hygrophorus firmus* var. *trinitensis* Dennis, Kew Bulletin 8: 266. 1953.

Holotype: Trinidad, Arena Forest, 5 Oct. 1949, R.W.G. Dennis 124 (K). Studied by Hesler & Smith (1963), Pegler & Fiard (1978) and Pegler (1983).

= Probably *Hygrocybe batistae* Singer (Pegler & Fiard 1978, Pegler 1983).

Hygrocybe troyana Murrill (as "*Hydrocybe troyana*"), Mycologia 3: 198. 1911.

Holotype: Jamaica, Troy, 12-14 Jan. 1909, W.A Murrill & W. Harris 1090 (NY). Studied by Smith & Hesler (1942) and Hesler & Smith (1963).

≡ *Hygrophorus troyanus* (Murrill) Murrill 1912b: 332, *Hygrocybe troyana* (Murrill) Courtec. 1989: 193 superfluous combination.

Hygrocybe turunda (Fr.: Fr.) P. Karst. (as "*Hydrocybe turunda*"), Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 235. 1879.

Basionym: *Agaricus turundus* Fr.: Fr., Observationes mycologicae 2: 199. 1818 (sanctioned in Systema mycologicum 1: 106. 1821).

Type: Not designated. Protologue based on material from Sweden.

≡ *Hygrophorus turundus* (Fr.: Fr.) Fr. 1836-1838: 330, *Pseudohygrocybe turunda* (Fr.: Fr.) Kovalenko 1988: 208.

Hygrocybe unguinosa (Fr.: Fr.) P. Karst. (as "*Hydrocybe unguinosa*"), Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 237. 1879.

Basionym: *Agaricus unguinosus* Fr.: Fr., Systema mycologicum 1: 101. 1821.

Type: Not designated. Protologue based on material from Sweden, Skåne.

≡ *Hygrophorus unguinosus* (Fr.: Fr.) Fr. 1836-1838: 332, *Gliophorus unguinosus* (Fr.: Fr.) Herink 1958: 81 invalidly published (no basionym, Art. 33.3).

= *Hygrocybe irrigata* (Pers.: Fr.) Bon (Boertmann 1995), *Hygrophorus clarkii* Berk. & Broome (Henrici 1996).

Hygrocybe unispora A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 926. 1997.

Holotype: Australia, Australian Capital Territory, Tidbinbilla Nature Reserve, 6 May 1990, A.E. Wood (UNSW no. 90/165).

Hygrocybe vallomarginata A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1006. 1997.

Holotype: Australia, New South Wales, Watagan State Forest, 29 May 1986, A.E. Wood & F. Taeker (UNSW no. 86/235).

Hygrocybe venusta Hongo, Transactions of the mycological society of Japan 25: 281. 1984.

Holotype: Japan, Shiga, Ôtsu-city, Kiryu, 28 Sept. 1981, T. Hongo 6307 (herb. T. Hongo).

Hygrocybe verrucifer (Velen.) Petrak, Index of Fungi 1936-1939. 1950: 44.

Basionym: *Hygrophorus verrucifer* Velen., Novitates Mycologicae: 23. 1939.

Type: Czech Republic, near Mnichovice, Oct. 1934, J. Velenovský, herb. not indicated, no material in PRC or PRM (J. Holec pers. comm.).

Hygrocybe versicolor (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus versicolor* E. Horak, Beihefte zur Nova Hedwigia 43: 175. 1973.

Type: New Zealand, Westland, Totara Flat, Ahaura, 21 Mar. 1968, E. Horak (holotype PDD no. 27095, isotype ZT no. 68/202). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe veselskyi Singer & Kuthan, Zeitschrift für Pilzkunde 42: 9. 1976.

Holotype: Czech Republic, Morava (Mähren), Ostrava, Halde Lučina, 19 July, J. Kuthan, R. Singer & Veselský C-5575 (F).

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. s.l. (Boertmann 1995).

Hygrocybe vinosa (Beeli) Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 457. 1963.

Basionym: *Clitocybe vinosa* Beeli, Bulletin de la société royale de botanique de Belgique 66: 21. 1933.

Holotype: Zaire, Distr. Forestier Central, Binga, June 1928, M. Goossens-Fontana 768 (BR). Studied by Heinemann (1963, 1966).

Hygrocybe viola Gesink & Bas, in Arnolds: Persoonia 12: 478. 1985b.

Holotype: Belgium, Namur, Vencimont, Houille valley, 3. Oct. 1977, J. Geesink (Bas 7225) (L).

≡ *Cuphophyllus viola* (Gesink & Bas) Bon 1989b: 73.

Hygrocybe virginea (Wulfen: Fr.) P.D. Orton & Watling, Notes from the Royal Botanic Garden Edinburgh 29: 132. 1969.

Basionym: *Agaricus virgineus* Wulfen, in Jacquin: Plantæ rariores Carinthiacæ: 104. 1781 (sanctioned in Systema mycologicum 1: 100. 1821).

Type: Not designated. Protologue, with illustration (plate no. 15 fig. 1), based on material from Austria, Kärnten.

≡ *Hygrophorus virgineus* (Wulfen: Fr.) Fr. 1836-1838: 327, *Camarophyllus virgineus* (Wulfen: Fr.) P. Kumm. 1871: 117, *Cuphophyllus virgineus* (Wulfen: Fr.) Kovalenko 1989: 37.

= *Hygrocybe nivea* (Scop.) Murrill, *Hygrocybe subradiata* (Schumach.) P.D. Orton & Watling, *Hygrophorus clavaeformis* (Schaeff.) E.H.L. Krause.

Hygrocybe viridiconica A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1006. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 28 Apr. 1982, A.E. Wood (UNSW no. 82/198).

Hygrocybe viridis Capelari & Maziero, Mycotaxon 33: 192. 1988.

Holotype: Brazil, Rondonia, Jaru, 8 Oct. 1986, M. Capelari & R. Maziero 826 (SP no. 211571).

Note: Non *Hygrocybe viridis* (G. Stev.) A.M. Young (1994) illegitimate and invalidly published name (no basionym, Art 33.2).

Hygrocybe viridula Lodge & Pegler, Mycological Research 94: 455. 1990.

Holotype: Puerto Rico, El Verde field station, 7 Nov. 1986, L. Prieto & D.J. Lodge PR-576 (K no. M865).

Hygrocybe viscauriantia (E. Horak) Boertm. comb. nov.

Basionym: *Gliophorus viscaurantius* E. Horak, Beihefte zur Nova Hedwigia 43: 165. 1973.

Type: New Zealand, Westland, Lake Hochstetter, 12 (21 in latin diagnosis) Mar. 1968, E. Horak (holotype PDD no. 27091, isotype ZT no. 68/146). Supplementary type description by Horak (1990).

Note: The protologue leaves no doubt on the generic affinity of this taxon, why it is reasonable to transfer it to *Hygrocybe*.

Hygrocybe viscidibrunnea Bougher & A.M. Young, Mycotaxon 63: 31. 1997.

Type: Australia, Western Australia, Denmark, 1 July 1993, A & K. Syme KS-684/93 (holotype PERTH no. 04259610, isotype CSIRO no. E5627).

Hygrocybe vitellina (Fr.) P. Karst. (as "*Hydrocybe vitellina*"), Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 233. 1879.

Basionym: *Hygrophorus vitellinus* Fr., Monographia hymenomycetum Sueciae 2: 312. 1863.

Type: Not designated. Protologue based on material from Sweden.

≡ *Gliophorus vitellinus* (Fr.) Kovalenko 1988: 209.

= *Hygrocybe luteolaeta* Arnolds, *Hygrocybe laeta* var. *luteolaeta* (Arnolds) Bon.

Hygrocybe vitellinoides Bon, Documents mycologiques 9 (35): 39. 1979 (nomen novum).

Replaced synonym: *Hygrocybe subvitellina* Bon, Documents mycologiques 6 (24): 41. 1976 illegitimate name.

Holotype: France, Somme, St. Valery, M. Bon 741014 (herb. M. Bon). Studied by Arnolds (1986d).

≡ *Hygrophorus subvitellinus* (Bon) ex Largent 1985b: 111 (nomen novum, Art. 58.1), *Hygrocybe ceracea* var. *vitellinoides* (Bon) Bon 1987: 35.

= *Hygrocybe ceracea* (Fr.: Fr.) P. Kumm. (Arnolds 1986d).

Note: Non *Hygrocybe subvitellina* (S. Imai) S. Ito 1959.

Hygrocybe vulpina (Velen.) Petrak (as *H. "vulpinus"*), Index of Fungi 1936-1939. 1950: 44.

Basionym: *Hygrophorus vulpinus* Velen., Novitates Mycologicae: 22. 1939.

Type: Czech Republic, near Mnichovice, Oct 1937-39, J. Velenovský. Two collections in PRM are perhaps syntypes and one of them could be designated as an epitype.

Hygrocybe waolipo Desjardin & Hemmes, Mycologia 89: 630. 1997.

Type: USA, Hawai'i, Natural Area Reserve System, Pu'u Maka'ala, 26 Sept. 1994, D.E. Hemmes 587 (holotype SFSU, isotype BISH).

Hygrocybe watagensis A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 930. 1997.

Holotype: Australia, New South Wales, Watagan State Forest, 17 June 1987, A.E. Wood, F. Taeker & B. Rees (UNSW no. 87/233).

Hygrocybe wilsonensis A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 950. 1997.

Holotype: Australia, New South Wales, Mt Wilson, 7 May 1983, A.E. Wood (UNSW no. 83/649).

Hygrocybe woodi A.M. Young, in A.M. Young & A.E. Wood: Australian Systematic Botany 10: 1009. 1997.

Holotype: Australia, New South Wales, Watagan State Forest, 17 June 1987, A.E. Wood, F. Taeker & B. Rees (UNSW no. 87/243).

Hygrocybe xanthochroa (P.D. Orton) M.M. Moser, Die Röhrlinge und Blätterpilze (Agaricales), 3. aufl.: 64. 1967.

Basionym: *Hygrophorus xanthochrous* P.D. Orton, Transactions. The British Mycological Society 43: 271. 1960.

Holotype: UK, Scotland, Inverness-shire, Rothiermurchus, Nature Reserve, 16 Sept. 1957, D.M. Henderson & R. Watling (K).

≡ *Cuphophyllus xanthochrous* (P.D. Orton) Bon 1984b: 12, *Gliophorus xanthochrous* (P.D. Orton) Kovalenko 1988: 209.

Hygrocybe xanthopoda A.M. Young, *Muelleria* 13: 28. 2000.

Holotype: Australia, Victoria, Wilsons Promontory, 23 May 1998, A.M. Young 2065 (MEL no. 2056604).

Hygrocybe zuluensis Boertm., *South African Journal of Botany* 64: 178. 1998.

Holotype: South Africa, KwaZulu-Natal, Umlalazi Nature Reserve, 23 Mar. 1995, D. Boertmann 95002 (C).

***Camarophylloopsis* names, validly published and legitimate**

Camarophylloopsis Herink 1958: 61, type *C. schulzeri* (Bres.) Herink. Synonyms: *Hygrotrama* Singer 1959: 221, type *H. dennisianum* Singer; *Hodophilus* R. Heim ex R. Heim 1965: 231, type *H. foetens* (W. Phillips) Heim invalidly published (no basionym, Art. 33.3).

Camarophylloopsis albipes (Singer) Boertm. comb. nov.

Basionym: *Hygrotrama albipes* Singer, *Beihefte zur Sydowia* 7: 4. 1973.

Holotype: Mexico, Vera-Cruz, Estación Biológica de las Tuxtlas near Montepío, 29 July 1969, R. Singer M-8734 (F).

Notes: Non *Hygrophorus albipes* Peck 1898. As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis araguense (Singer) Boertm. comb. nov.

Basionym: *Hygrotrama araguense* Singer, *Fieldiana, Botany N.S.* 21: 2. 1989.

Holotype: Venezuela, Aragua, Parque Nacional Henry Pittier, 8.6 km south of Rancho Grande, 6 July 1971, Dumont, Haines & Samuels (NY).

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis atropuncta (Pers.: Fr.) Arnolds, *Mycotaxon* 25: 642. 1986.

Basionym: *Agaricus atropunctus* Pers, *Synopsis methodica fungorum*: 353. 1801 (sanctioned in *Systema mycologicum* 1: 195. 1821).

Type: Not designated. Protologue based on material from Europe.

≡ *Omphalia atropuncta* (Pers.: Fr.) Quél. 1878: 319, *Camarophyllus atropunctus* (Pers.: Fr.) J.E. Lange 1938: 96, *Hygrophorus atropunctus* (Pers.: Fr.) A.H. Smith & Hesler 1942: 15, *Aeruginospora atropuncta* (Pers.: Fr.) M.M. Moser 1967: 70, *Hygrocybe atropuncta* (Pers.: Fr.) P.D. Orton & Watling 1969: 134, *Hygrotrama atropunctum* (Pers.: Fr.) Singer 1973: 3.

Camarophylloopsis darwinensis A.M. Young, in A.M. Young & A.E. Wood: *Australian Systematic Botany* 10: 1017. 1997.

Holotype: Australia, Northern Territory, Darwin, 22 Feb. 1985, A.E. Wood & Kilkeary (UNSW no. 83/127).

Camarophylloopsis deceptiva (A.H. Smith & Hesler) Boertm. comb. nov.

Basionym: *Hygrophorus deceptivus* A.H. Smith & Hesler, *Lloydia* 5: 45. 1942.

Type: USA, North Carolina, Great Smoky Mts. National Park, 30 Sept. 1939, L.R. Hesler 10247 (holotype TENN, isotype MICH).

≡ *Hygrotrama deceptivum* (A.H. Smith & Hesler) Singer 1973: 4.

= Probably *Camarophylloopsis schulzeri* (Bres.) Herink (Arnolds 1990).

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis dennisiana (Singer) Arnolds, *Mycotaxon* 25: 642. 1986.

Basionym: *Hygrotrama dennisianum* Singer, *Sydowia* 12: 221. 1959 "1958".

Holotype: Mexico, Oaxaca, Huautla de Jiménez, 13 July 1957, R. Singer M-1553 (LIL).

≡ *Aeruginospora dennisiana* (Singer) Singer 1962b: 46, *Hygrophorus dennisianus* (Singer) Hesler & A.H. Smith 1963: 102, *Hygrocybe dennisiana* (Singer) P.D. Orton & Watling 1969: 137.

Camarophylloopsis foetens (W. Phillips) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Hygrophorus foetens* W. Phillips, in Berk. & Broome: *Annals and magazine of natural history. Fifth series* 3: 207. 1879.

Holotype: UK, England, near Schrewsbury, W. Phillips (K).

≡ *Camarophyllus foetens* (W. Phillips) J.E. Lange 1923: 18, *Hodophilus foetens* (W. Phillips) Heim 1965: 231 invalidly published (no basionym, Art. 33.3), *Aeruginospora foetens* (W. Phillips) M.M. Moser 1967: 69, *Hygrocybe foetens* (W. Phillips) P.D. Orton & Watling 1969: 134, *Hygrotrama foetens* (W. Phillips) Singer 1973: 3.

= *Omphalia abhorrens* (Berk. & Broome) Sacc. (Arnolds 1990).

Camarophylloopsis hiemalis (Singer & Clemençon) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Aeruginospora hiemalis* Singer & Clemençon, *Schweizerische Zeitschrift für Pilzkunde* 49: 118. 1971.

Holotype: Switzerland, Lausanne, Botanischer Garden, Feb. 15 1971, R. Singer C-5251 (F).

≡ *Hygrotrama hiemale* (Singer & Clemençon) Singer 1973: 4.

Note: Non *Hygrophorus hiemalis* Velen.

Camarophylloopsis hymenocephala (A.H. Smith & Hesler) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Hygrophorus hymenocephalus* A.H. Smith & Hesler, *Journal of the Elisha Mitchell scientific society* 56: 311. 1940.

Type: USA, North Carolina, Highlands, 14 Aug. 1938, L.R. Hesler & A.H. Smith 10383 (holotype MICH, isotype TENN). Studied by Singer (1955).

≡ *Hygrotrama hymenocephalum* (A.H. Smith & Hesler) Singer 1959: 222, *Aeruginospora hymenocephala* (A.H. Smith & Hesler) Singer 1962b: 46, *Hygrocybe hymenocephala* (A.H. Smith & Hesler) P.D. Orton & Watling 1969: 134.

Notes: Non *Dermoloma hymenocephala* (A.H. Smith) Singer. Collection date for holotype listed as 21 Aug in English description (Smith & Hesler 1940).

Camarophylloopsis kearneyi A.M. Young, *Austrobaileya* 5: 562.

Holotype: Australia, New South Wales, Lane Cove Bushland Park, 13 June 1998, R. & E. Kearney (DAR no. 73919).

Camarophylloopsis leucopus (Singer) Boertm. comb. nov.

Basionym: *Hygrotrama leucopus* Singer, *Beihefte zur Sydowia* 7: 3. 1973.

Holotype: Brazil, Paraibo, João Pessôa, 11 June 1960, R. Singer B-3344 (BAFC).

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis micacea (Berk. & Broome) Arnolds, *Persoonia* 13: 386. 1987.

Basionym: *Hygrophorus micaceus* Berk. & Broome, *Annals and magazine of natural history. Fifth series* 3: 207. 1879.

Holotype: UK, Coed Coch, Oct. 1878, R. Berkeley (K).

≡ *Hygrocybe micacea* (Berk. & Broome) P.D. Orton & Watling 1969: 134, *Hygrotrama micaceum* (Berk. & Broome) Bon 1977a: 46.

= *Camarophylloopsis phaeoxantha* (Romang.) Arnolds (Arnolds 1990).

Camarophylloopsis microspora (A.H. Smith & Hesler) Boertm. comb. nov.

Basionym: *Hygrophorus microsporus* A.H. Smith & Hesler, *Lloydia* 5: 11. 1942.

Holotype: USA, Michigan, Oakland County, 24 Sept. 1940, A.H. Smith 15455 (MICH). Supplementary type description by Hesler & Smith (1963).

≡ *Hygrotrama microsporum* (A.H. Smith & Hesler) Singer 1959: 223, *Aeruginospora microspora* (A.H. Smith & Hesler) Singer 1962b: 46.

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis paupertina (A.H. Smith & Hesler) Boertm. comb. nov.

Basionym: *Hygrophorus paupertinus* A.H. Smith & Hesler, *Lloydia* 5: 13. 1942.

Holotype: USA, California, Orick, 5 Dec. 1935, A.H. Smith 3793 (MICH).

≡ *Aeruginospora paupertina* (A.H. Smith & Hesler) Singer 1962b: 46, *Hygrotrama paupertinum* (A.H. Smith & Hesler) Singer 1973: 4.

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis peckiana (Howe) Boertm. comb. nov.

Basionym: *Hygrophorus peckianus* Howe, *Bulletin of the Torrey Botanical Club* 5: 43. 1874.

Type: USA, New York State, Lake Pleasant, Aug., herb. not indicated. Collection probably not preserved, as no material quoted in Hesler & Smith (1963).

≡ *Camarophyllus peckianus* (Howe) Murrill 1916a: 389, *Hygrotrama peckianum* (Howe) Singer 1973: 4.

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis pedicellata (Natarajan & Manjula) Boertm. comb. nov.

Basionym: *Hygrotrama pedicellatum* Natarajan & Manjula (as *H. "pedicellata"*), *Mycologia* 74: 130. 1982.

Holotype: India, Tamil Nadu, Madras, Christian College Campus, 28 Oct. 1977, B. Manjula (herb. Madras University Botany Laboratory no. 2446).

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis phaeophylla (Romagn.) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Hygrophorus rugulosus* var. *phaeophyllus* Romagn., *Bulletin de la Société Mycologique de France* 86: 874. 1971.

Holotype: France, H. Romagnesi 51.267 (PC).

≡ *Hygrotrama rugulosum* var. *phaeophyllum* (Romagn.) Bon 1977a: 46, *Hygrotrama phaeophyllum* (Romagn.) Arnolds 1985b: 477.

Camarophylloopsis phaeoxantha (Romagn.) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Hygrophorus phaeoxanthus* Romagn., *Bulletin de la Société Mycologique de France* 86: 873. 1971.

Holotype: France, H. Romagnesi 54.268 (PC).

≡ *Hygrotrama phaeoxanthum* (Romagn.) Bon 1977a: 47.

= *Camarophylloopsis micacea* (Berk. & Broome) Arnolds (Arnolds 1990).

Camarophylloopsis roseola (G. Stev.) Boertm. comb. nov.

Basionym: *Omphalina roseola* G. Stev., *Kew Bulletin* 19: 12. 1964.

Holotype: New Zealand, Levin, 18 Jun. 1949, G. Stevenson (K).

≡ *Hygrotrama roseolum* (G. Stev.) E. Horak 1971: 450.

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all *Hygrotrama* names should be transferred.

Camarophylloopsis rugulosa (A.H. Smith & Hesler) Arnolds, *Mycotaxon* 25: 643. 1986.

Basionym: *Hygrophorus rugulosus* A.H. Smith & Hesler, *Sydowia* 8: 330. 1954.

Holotype: USA, Michigan, Pellston Hardwoods, Pellston, 10 Aug. 1951, A.H. Smith 37565 (MICH).

≡ *Hygrotrama rugulosum* (A.H. Smith & Hesler) Singer 1973: 4.

Camarophylloopsis rugulosoides (Hesler & A.H. Smith) Boertm. comb. nov.

Basionym: *Hygrophorus rugulosoides* Hesler & A.H. Smith, *North American Species of Hygrophorus*: 106. 1963.

Holotype: USA, Michigan, Burt Lake, Colonial Point, 4 Aug. 1961, A.H. Smith 63826 (MICH).

≡ *Hygrotrama rugulosoides* (Hesler & A.H. Smith) Singer 1973: 4.

Note: As *Hygrotrama* at genus level was shown to be a later synonym to *Camarophylloopsis* (Arnolds 1986e) all names in *Hygrotrama* should be transferred.

Camarophylloopsis schulzeri (Bres.) Herink Acta Musei Bohemiae septentr. Liberecensis 1: 77. 1958.

Basionym: *Hygrophorus schulzeri* Bres., Fungi Tridentini novi, vel nondum deliniati, descripti, et iconibus illustrati: 57. 1884.

Type: Not designated. Protologue based on material from Italy, Trento. Horak (1968) studied and designated material “leg. et det. Bresadola 1882” as lectotype (S).

≡ *Camarophyllus schulzeri* (Bres.) Ricken 1920: 198, *Hygrocybe schulzeri* (Bres.) Joss. 1937: 206, *Aeruginospora schulzeri* (Bres.) M.M. Moser 1967: 70, *Hygrotrama schulzeri* (Bres.) Singer 1973: 4.

Camarophylloopsis subfuscescens (A.H. Smith & Hesler) Arnolds, Mycotaxon 25: 643. 1986.

Basionym: *Hygrophorus subfuscescens* A.H. Smith & Hesler, Sydowia 8: 317. 1954.

Holotype: USA, Michigan, Hardwoods, near Mackinaw City, 6 Aug. 1949, A.H. Smith 32894 (MICH).

≡ *Hygrotrama subfuscescens* (A.H. Smith & Hesler) Singer 1973: 3.

Camarophylloopsis tetraspora (Singer) Raitelh. Metrodiana 19: 20. 1992.

Basionym: *Hygrotrama tetrasporum* Singer, Fieldiana, Botany N.S. 21: 3. 1989.

Holotype: Brazil, Amazonas, Estrada Manaus-Caracarai km 45, 28 Feb. 1978, Singer & Araujo B-10714 (INPA).

Names likely to be transferred to (or synonymised with names in) *Hygrocybe* or *Camarophylloopsis*

Hygrophorus acutesporus Britzelm., Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg in Augsburg 30: 31 (p. 201 in complete edition of Hymenomyceten aus Südbayern). 1890.

Type: Not designated. Protologue, with illustration (plate 438 no. 20), based on material from Germany, Bayern, near Augsburg.

≡ *Hygrophorus pratensis forma acutesporus* (Britzelm.) Killerm. (as *H. p. forma “acutisporus”*) 1933: 61.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill (Bresinsky & Stangl 1966).

Hygrophorus acutoides A.H. Smith & Hesler, Sydowia 8: 325. 1954.

Holotype: USA, Michigan, Hardwoods, Mackinaw City, 16 Sept. 1950, Thiers & A.H. Smith 35847 (MICH).

Hygrophorus acutoides var. *pallidus* Hesler & A.H. Smith, North American Species of *Hygrophorus*: 132. 1963.

Holotype: USA, Michigan, Milford, 17 Sept. 1940, A.H. Smith 15421 (MICH).

Hygrophorus acutus A.H. Smith & Hesler, *Lloydia* 5: 57. 1942.

Type: USA, Oregon, South Fork of the McKenzie River, 21 Oct. 1937, A.H. Smith 7986 (MICH).

Hygrophorus albicarneus Hesler & A.H. Smith, *North American Species of Hygrophorus*: 197. 1963.

Holotype: USA, Oregon, Mt Hood, 31 May 1947, W.B. Gruber (MICH).

Camarophyllus albidocinereus Kalaméés, *Folia Cryptogamica Estonica* 27: 2. 1989.

Holotype: Uzbekistan, Dzhizak Region, Zaamin distr., Pamiro Alai Mts, 25 May 1980 K. Kalaméés (TAA no. 121359).

≡ *Cuphophyllus albidocinereus* (Kalaméés) Bon 1990c: 62.

Hygrophorus albinellus Largent, *Mycotaxon* 23: 385. 1985.

Holotype: USA, California, Santa Cruz Co., Boulder Creek, 30 Dec. 1970, D. Largent HDT-27077 (SFSU).

Hygrophorus albipes Peck, *Bulletin of the Torrey Botanical Club* 25: 323. 1898.

Holotype: USA, Massachusetts, Sept., G.E. Francis (NYS). Studied by Hesler & Smith (1963).

≡ *Camarophyllus albipes* (Peck) Murrill 1916a: 388.

Notes: This taxon probably belongs to genus *Camarophyllopsis*. Non *Camarophyllopsis albipes* (Singer) Boertm.

Hygrophorus albus G.H. Otth, in *Trog: Mittheilungen der naturforschenden Gesellschaft in Bern* 1857: 36. 1857.

Type: Not designated. Protologue based on material from Switzerland, Bremgartenwald.

Note: Perhaps *Hygrocybe calyptriformis forma nivea* (Cooke) Bon.

Hygrophorus alutaceus Berk. & Broome, *The Journal of the Linnean Society. Botany* 11: 563. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, Jan. 1869, Thwaites 880* (K). Studied by Pegler (1986).

= *Hygrocybe firma* (Berk. & Broome) Singer (Pegler 1986).

Hygrophorus atrococcineus Kalchbr., *Grevillea* 9: 134. 1881.

Holotype: South Africa, Natal, Wood 364, herbarium not indicated and material not located by Reid (1975).

Hygrophorus atroolivaceus A.H. Smith & Hesler, *Sydowia* 8: 326. 1954.

Holotype: USA, Michigan, Pellston, Pellston Hills, 10 Aug. 1952, A.H. Smith 39418 (MICH).

Omphalina atrovelutina Romagn., Bulletin de la Société Mycologique de France 86: 873. 1971.

Holotype: France, Val-d'Oise, Chaumontel, La Charbonnière, 24 Aug. 1951, H. Romagnesi 51.20 (PC).

Note: Should perhaps be transferred to *Camarophyllopsis* (Bon 1977a, Singer 1986).

Hygrophorus aurantiacoluteus Berk. & M.A. Curtis, Annals and magazine of natural history. Third series 4: 293. 1859.

Holotype: USA, Connecticut, C. Wright (M.A. Curtis 5571) (K). Studied by Murrill (1916a) and Hesler & Smith (1963).

Hygrophorus aurantiacus Henn., Monsunia 1: 148 (p. 50 in separate print). 1899.

Holotype: Indonesia, Java, Tjibodas, 6 July 1898, M. Fleischer (B, lost during Second World War (Hein 1989)).

Hygrophorus auratocephalus (Ellis) Murrill, Mycologia 9: 40. 1917.

Basionym: *Agaricus auratocephalus* Ellis, Bulletin of the Torrey Botanical Club 6: 75. 1876.

Type: Not designated. Protologue based on material from USA, New Jersey, New Field. Material collected by Ellis studied by Hesler & Smith (1963).

≡ *Camarophyllus auratocephalus* (Ellis) Murrill 1916a: 387.

Hygrophorus badakensis Henn., Monsunia 1: 148 (p. 50 in separate print). 1899.

Holotype: Indonesia, Java, Kandang-Badak, July 1898, M. Fleischer (B, lost during Second World War (Hein 1989)).

Hygrophorus bakeri Dennis, Kew Bulletin 8: 258. 1953.

Holotype: Trinidad, St. Joseph, no date, R.W.G. Dennis IIA (K). Studied by Hesler & Smith (1963).

Hygrophorus basidiosus (Peck) Peck, New York State Museum Bulletin 116: 57. 1907.

Basionym: *Clitocybe basidiosa* Peck, Bulletin of the New York State Museum of Natural History 1 (2): 5. 1887.

Syntypes: USA, New York State, Sandlake and East Berne, Aug., C.H. Peck (NYS). Sandlake material studied by Hesler & Smith (1963).

≡ *Camarophyllus basidiosus* (Peck) Murrill 1916a: 389.

Note: Murrill (1916a) indicate that protologue was issued 1888.

Camarophyllus berkeleyanus Clemençon, Beiheft zur Zeitschrift für Mykologie 4: 55. 1982 (nomen novum).

Replaced synonym: *Hygrophorus berkeleyi* P. D. Orton 1960: 259 illegitimate name.

Type: UK, England, Devon, Membury, 3 Nov. 1956, P.D. Orton (K).

Notes: According to Arnolds (1986d) Clemençon's name is superfluous. See also *Hygrocybe berkeleyi* p. 16.

Cuphophyllus berkeleyi forma bisporus Bon (as *C. b. f. "bispora"*), Documents mycologiques 14 (56): 10, 1984.

Holotype: No information in protologue except: no. 84285 in herb. M. Bon.

Gliophorus bichromus E. Horak, Beihefte zur Nova Hedwigia 43: 170. 1973.

Type: New Zealand, Nelson, Lake Rotoiti, 5 May 1968, E. Horak (holotype PDD no. 27093, isotype ZT no. 68/383). Supplementary type description by Horak (1990).

= *Hygrocybe sulphurea* (G. Stev.) Boertm. (Horak 1990, as *Gliophorus sulphureus*).

Clitocybe bicolor (Baker & Dale) ex Dennis, Kew Bulletin 1952: 490. 1953 (nomen novum, Art. 58.1).

Replaced synonym: *Omphalia bicolor* Baker & Dale 1951: 91 illegitimate name.

Holotype: Trinidad, St Joseph, 9 Aug. 1947, I.C.T.A. 1494 (K). Studied by Singer (1955).

Notes: *Clitocybe ferrugineoalba* Singer (1955) and *Camarophyllus ferrugineoalbus* (Singer) Singer (1973) are superfluous names for this taxon. The former should replace *Omphalia bicolor* Baker & Dale (1951), but was antedated by Dennis's (1953b) combination into *Clitocybe*, an action which also was a renaming (Art. 58.1). Non *Hygrophorus bicolor* Berk. & Broome (1871a), nec *Hygrophorus bicolor* P. Karst. (1878) illegitimate name, nec *Omphalia bicolor* Murrill (1946).

Hygrophorus bicolor Berk. & Broome, The Journal of the Linnean Society. Botany 11: 565. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, July-Aug. 1868, Thwaites 702 (K).

= *Hygrocybe roseostriata* (Berk. & Broome) Pegler (Pegler 1986).

Note: Non *Hygrophorus bicolor* P. Karst. 1878, nec *Hygrophorus bicolor* S. Ito & S. Imai (1939).

Hygrotrama bicolor Sathe & S.M. Kulk., Maharashtra Association for Cultivation of Science Monograph 1: 53. 1980.

Holotype: India, Karnataka State, Agumba, no date (AMH 4557).

Note: Due to bright colours and large spores, I hesitate to transfer this taxon to *Camarophyllopsis*.

Hygrophorus bipindiensis Henn., Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 30: 49. 1902.

Type: Camaroon, Bipindi, Apr. 1899, G. Zenker 2047 "2027" (holotype B, lost during Second World War, epitype HBG (Hein 1989)).

Note: In Saccardo & Saccardo (1905) listed as *Hygrophorus bipindensis* Henn.

Hygrophorus borealis var. *subborealis* Kauffman, The agaricaceae of Michigan: 192. 1918.

Syntype: USA, Michigan, Ann Arbor, New Richmond, Third Woods, 12. Aug. 1912 (MICH).

Hygrophorus brasiliensis Mont., Annales des sciences naturelles, 4. séries. Botanique 5: 362. 1856.

Type: Brazil, Goiás, 1843, H.A. Weddell 17/191 (PC, painting only). Studied by Pegler (1990).

Hygrophorus brevipes A.H. Smith & Hesler, Lloydia 5: 57. 1942.

Holotype: USA, Michigan, Ann Arbor, 13 Oct. 1936, A.H. Smith 6056a (MICH).

Hygrophorus buccinulus (Speg.) Dennis, Kew Bulletin 8: 256. 1953.

Basionym: *Clitocybe buccinula* Speg. Boletín de la Academia Nacional de Ciencias de Córdoba 11: 388. 1889.

Holotype: Brazil, São Paulo, Apiahy, Apr. 1888, J. Puiggari 2885 (LPS no. 2899).

≡ *Marasmiellus buccinulus* (Speg.) Singer 1951a: 299, *Camarophyllus buccinulus* (Speg.) Pegler, 1983: 48.

Hygrophorus burgdorfensis Hesler & A.H. Smith, North American Species of *Hygrophorus*: 67. 1963.

Holotype: USA, Idaho, near Burgdorf, 12 Aug. 1958, A.H. Smith 60169 (MICH).

Hygrophorus caerulescens Berk. & M.A. Curtis, Annals and magazine of natural history. Third series 4: 292. 1859.

Holotype: USA, New England, C.J. Sprague (M.A. Curtis 5434) (K). Studied by Hesler & Smith (1963).

Hygrophorus caeruleus O.K. Mill., Mycologia 76: 816. 1984.

Holotype: USA, Idaho, Valley Co., 24 June 1982, O.K. Miller & R.G. Farnsworth 19841 (VPI).

Hygrophorus caesius Berk. & Broome, The Journal of the Linnean Society. Botany 11: 566. 1871.

Holotype: Sri Lanka, Kandy Distr., Peradinya, Dec. 1868, Twaites 856 (K). Studied by Pegler (1986).

≡ *Camarophyllus caesius* (Berk. & Broome) Pegler 1986: 52.

= *Hygrocybe multicolor* (Berk. & Broome) E. Horak (Pegler 1986).

Hygrophorus cantharelliformis Britzelm., Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 453 no. 89), based on material from Germany, Bayern, near Augsburg.

Hygrophorus cantharellus var. *flava* Peck, 43d Report of the New York State Museum of Natural History: 39. 1890.

Neotype: USA, New York State, Adirondack Region, July, C.H. Peck (NYS). Type not clearly designated, but could be implied (Index to C.H. Peck's types).

Hygrophorus cantharellus var. *flaviceps* Peck, 43d Report of the New York State Museum of Natural History: 39. 1890.

Holotype: USA, New York State, Adirondack Region, July, C.H. Peck (NYS). Type not clearly designated (Index to C.H. Peck's types).

Hygrophorus cantharellus var. *flavipes* Peck, 43d report of the New York State Museum of Natural History: 39. 1890.

Holotype: USA, New York State, Adirondack Region, Aug., C.H. Peck (NYS). Type not clearly designated (Index to C.H. Peck's types).

Hygrophorus cantharellus var. *roseus* Peck (as *H. c.* "var. *rosea*"), Twenty-third annual report of the Regents of the University of the State of New York: 114. 1873.

Holotype: USA, New York State, Sandlake, C.H. Peck (NYS).

Hygrophorus carcharias E. Horak, New Zealand Journal of Botany 28: 292. 1990.

Type: New Zealand, North Auckland, Egmont National Park, Pouakai Range, Timaru Stream, 16 June 1968, E. Horak (holotype PDD no. 27089, isotype ZT no. 68/555). Supplementary type description by Horak (1990).

Note: By Horak (1990) regarded as a *Hygrophorus* s.s., although it is considered to be saprobic.

Hygrophorus carnescens S. Imai, Journal of the faculty of agriculture Hokkaido Imperial University 43: 108. 1938.

Type: Not designated. Protologue based on material from Japan, Hokkaido, Ishikari, Nopporo.

≡ *Camarophyllus carnescens* (S. Imai) S. Ito 1959: 72.

Hygrophorus cavipes Dennis & Reid, in Dennis et al. Kew Bulletin 32: 103. 1977.

Holotype: Azores, Terceira, Mata de Junta Geral, 3 Apr. 1975 (K).

Note: Non *Hygrocybe cavipes* E. Horak.

Hygrophorus ceraceus var. *moschatus* Berk. & Broome, The Journal of the Linnean Society. Botany 11: 564. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr. Peradeniya, Nov. 1868, Thwaites 812 (K).

= *Hygrocybe similis* (Pegler 1986).

Camarophyllus cereopallidus Cléménçon, Schweizerische Zeitschrift für Pilzkunde 57: 115. 1979.

Holotype: Switzerland, Colline de Chamblon, Yverdon VD, 28 Oct. 1977, H. Cléménçon 77/215 (LAU).

≡ *Cuphophyllus cereopallidus* (Cleménçon) Bon 1984b: 11.

Cuphophyllus cereopallidus forma *bisporiger* Bon, Documents mycologiques 19 (75): 56. 1989.

Holotype: France, near Chambon s. L., M. Bon 87119 (herb. M. Bon).

Hygrophorus chamaeleon Cibula, Mycotaxon 10: 109. 1979.

Holotype: USA, Mississippi, near Saucier, 8 Aug. 1974, W. Cibula 589 (MASS).

Hygrophorus chlorophanus forma tenuis Killerm., Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 68. 1933.

Type: Germany, Bayern, Hauz., Oct. 1909, S. Killermann, herb. not indicated.

Hygrophorus chlorophanus var. coccineus Peck (as *H. c. var. "coccinea"*), Twenty-fifth annual report of the New York State Museum of Natural History: 79. 1873.

Type: USA, New York State, Greenbush, June, C.H. Peck, material missing (Index to C.H. Peck's types).

Agaricus chloroticus Mont., Annales des sciences naturelles, 4. séries. Botanique 5: 357. 1856.

Type: Brazil, Matto Grosso, 1843, H. A. Weddell 18/203 (PC, painting only). Studied by Pegler (1990).

≡ *Mycena chlorotica* (Berk.) Sacc. 1887: 262.

Note: According to Pegler (1990) almost certainly a green species of section *Firmae* Heinemann.

Hygrophorus christianifolius E.H.L. Krause, Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg, n.f. 9: 13. 1935.

Type: Not designated. Protologue based on material from Germany, Mecklenburg, Rostock.

Hygrophorus chrysoconos S. Imai, The Botanical Magazine, Tokyo 53: 396. 1939.

Holotype: Japan, Hokkaido, Isikari, Nopporo, 19 Oct. 1936, S. Imai, herb. not indicated.

≡ *Camarophyllus chrysoconos* (S. Imai) S. Ito 1959: 72.

Hygrophorus citrinocroceus Beck, Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien 39: 608. 1889.

Holotype: Austria, near Kranichberg, Sept., L. Ganglbauer, herb. not indicated.

= Perhaps *Hygrocybe ceracea* (Fr.: Fr.) P. Kumm. (Nüesch 1922).

Hygrophorus clarkii Berk. & Broome, Annals and magazine of natural history. Fourth series 11: 341. 1873.

Holotype: UK, England, Street, Oct. 1872, J.A. Clark no. 1788, herb. not indicated.

= *Hygrocybe unguinosa* (Fr.: Fr.) P. Karst. (Henrici 1996).

Hygrophorus clavaeformis (Schaeff.) E.H.L. Krause, Mecklenburgs Basidiomyceten das sind die Poggenstühle und verwandten Schwämme: 98. 1934.

Basionym: *Agaricus clavaeformis* Schaeff., Fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones nativis coloribus expressae tomus quartus et ultimus: 74, pl. 307. 1774.

Type: Not designated. Protologue based on material from Germany, Bayern.

≡ *Hygrophorus virgineus forma clavaeformis* (Schaeff.) Britzelm. 1895: 309.
= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling.

Hygrophorus cokeri A.H. Smith & Hesler, *Lloydia* 5: 34. 1942 (nomen novum).

Replaced synonym: *Hygrophorus gomphidioides* Coker, *Journal of the Elisha Mitchell scientific society* 45: 168. 1929, illegitimate name.

Holotype: USA, North Carolina, Meeting of the Waters, 15 Apr. 1920, J.N. Coch, herb. not indicated. Studied by Hesler & Smith (1963).

Note: Non *Hygrophorus gomphidioides* Henn. (1908).

Hygrophorus compressus Velen., *České Houby*: 104. 1920.

Holotype: Czech Republic, near Třeboň Aug. 1915, Weinzettl (PRC).

Hygrophorus congelatus Peck, *Twenty-third annual report of the Regents of the University of the State of New York*: 114. 1873.

Holotype: USA, New York State, North Elba, Sept., C.H. Peck (NYS).

≡ *Hygrophorus miniatus var. congelatus* (Peck) Peck 1907: 61.

= *Hygrocybe miniata* (Fr.: Fr.) P. Kumm. (Hesler & Smith 1963).

Hygrophorus conicus var. atrosanguineus Grund & K.A. Harrison, *Canadian Journal of Botany* 52: 1243. 1974.

Holotype: Canada, Nova Scotia, Kings Co., Gaspereaux Valley, 24 July 1973, D.W. Grund (ACAD AU-10375).

Hygrophorus conicus forma carbonarius Hongo, *Journal of Japanese Botany* 35: 83, 1960.

Holotype: Japan, Shiga, Ôtsu-city, Ishiyama-Terabe-chô, 11 Oct. 1958, T. Hongo (herb. T. Hongo).

Hygrophorus cremeus (Murrill) Dennis, *Kew Bulletin* 8: 257. 1953.

Basionym: *Omphalina cremea* Murrill, *North American Flora* 9: 350. 1916.

Holotype: Jamaica, Chester Vale, 22 Dec. 1908, W.A. & E.L. Murrill 353 (NY). Studied by Dennis (1953a).

≡ *Omphalia cremea* (Murrill) Murrill 1916b: 219, *Camarophyllus cremeus* (Murrill) Singer 1969: 10.

Hygrophorus croceophyllus Bres., *Annales Mycologici* 5: 237. 1907.

Type: Indonesia, Java, 1903-1904, E. Heinricher, herb. not indicated.

Hygrophorus croceus forma major Killerm., *Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.*: 67. 1933.

Type: Germany, Bayern, Eibsee, Oct. 1932, S. Killermann, herb. not indicated.

Camarophyllus delicatus E. Horak, *Beihefte zur Nova Hedwigia* 43: 121. 1973.

Type: New Zealand, Canterbury, Kowai Bush, Mt Grey, 25 Sept. 1967, E. Horak (holotype PDD no. 27087, isotype ZT no. 67/136).

Note: Horak (1990) raised doubt about the generic identity of the type.

Hygrophorus democrates (E.H.L. Krause) E.H.L. Krause, Mecklenburgs Basidiomyceten das sind die Poggenstühle und verwandten Schwämme: 99. 1934.

Basionym: *Agaricus democrates* E.H.L. Krause, Archiv der Freunde der Naturgeschichte in Mecklenburg n.f. 1 (78. Vereinsjahr): 114. 1925.

Type: Not designated. Protologue based on material from Germany, Mecklenburg, Rostock.

= Probably *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm.

Hygrophorus elegans Killerm., Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 64. 1933.

Type: Germany, Bayern, Garmisch-Obergrainau Neuner Alm, Oct. 1932, S. Killermann, herb. not indicated.

Note: Non *Hygrocybe elegans* E. Horak.

Hygrophorus ericeti Britzelm., Botanische Centralblatt 62, no. 10 (23): 309 (p. 12 in separate print). 1895.

Type: Not designated. Protologue, with illustration (plate 457 no. 10), based on material from Germany, Bayern, near Augsburg.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill (Bresinsky & Stangl 1966).

Hygrophorus ericeus (Bull.) J. Schroet., Die Pilze Schlesiens: 529. 1889.

Basionym: *Agaricus ericeus* Bull., Herbar de la France: Plate 188. 1783.

Type: Not designated. Protologue based on material from France.

= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling.

Hygrophorus facessitus Britzelm. Bericht des Naturhistorischen Vereins in Augsburg 28: 135. 1885.

Type: Not designated. Protologue, with illustration (plate 438 no. 18), based on material from Germany, Bayern, Kaufbeuren near Augsburg.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill (Bresinsky & Stangl 1966).

Hygrophorus fallax A.H. Smith & Hesler, Sydowia 8: 315. 1954.

Holotype: USA, Tennessee, Great Smokey Mts., Indian Camp Creek, 30 Aug. 1938, L.R. Hesler (A.H. Smith 10661) (MICH).

Note: Should probably be transferred to *Camarophylloopsis*.

Hygrophorus ficoides (Bull. & Vent.) J. Schroet., Die Pilze Schlesiens: 529. 1889.

Basionym: *Agaricus ficoides* Bull. & Vent., Histoire des champignons de la France 2: 526. 1809 (quoted from Arnolds 1990).

Type: Not designated. Protologue based on material from France.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill (Arnolds 1974b).

Notes: The plate 587 in Bulliard (1780-1798) is without scientific binomial. This was apparently applied by Bulliard & Ventenat in Histoire de champignons de la France "Tome second" p. 526 (1809), cf. Arnolds (1990). I have, however not had access to that edition.

Hygrophorus firmus var. *albus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Holotype: Malaysia, Pahang, Cheka River, 12 Nov. 1930, E.H.J. Corner (herb. E.H.J. Corner).

Hygrophorus firmus var. *amethystinus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Type: Malaysia, Pahang, Tembeling, 9 Nov. 1930, E.H.J. Corner (holotype herb. E.H.J. Corner, isotype E).

Hygrophorus firmus var. *depallens* Corner, Transactions. The British Mycological Society 20: 177. 1936.

Type: Singapore, Reservoir Jungle, no date, E.H.J. Corner (probably herb. E.H.J. Corner).

Hygrophorus firmus var. *flavoalbus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Type: Singapore, Reservoir Jungle, no date, E.H.J. Corner (probably herb. E.H.J. Corner).

Hygrophorus firmus var. *flavus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Type: Not designated. Protologue based on material from Singapore, Botanic Gardens.

Hygrophorus firmus var. *gracillimus* Corner, Transactions. The British Mycological Society 20: 179. 1936.

Syntypes: Malaysia, Fraser's Hill, May and Nov. 1930, E.H.J. Corner (herb. E.H.J. Corner).

Hygrophorus firmus var. *longipes* Corner, Transactions. The British Mycological Society 20: 179. 1936.

Syntypes: Malaysia, several collection sites mentioned (probably in herb. E.H.J. Corner).

Hygrophorus firmus var. *militaris* Corner, Transactions. The British Mycological Society 20: 177. 1936.

Type: Not designated. Protologue based on material from Singapore.

Hygrophorus firmus var. *minimus* Corner, Transactions. The British Mycological Society 20: 179. 1936.

Syntypes: Singapore/Malaysia, three collection sites mentioned (probably in herb. E.H.J. Corner).

Hygrophorus firmus var. *pachyphyllus* Corner, Transactions. The British Mycological Society 20: 179. 1936.

Syntypes: Singapore, Reservoir Jungle (probably in herb. E.H.J. Corner).

Hygrophorus firmus var. *pallidipes* Corner, Transactions. The British Mycological Society 20: 177. 1936.

Type: Not designated. Protologue based on material from Singapore/Malaysia.

Hygrophorus firmus var. *puniceoides* Corner, Transactions. The British Mycological Society 20: 177. 1936.

Type: Malaysia, Pahang, Tembeling, 4 Nov. 1930, E.J.H. Corner (holotype herb. E.H.J. Corner, isotype E).

Hygrophorus firmus var. *purpureus* Dennis see *Hygrocybe naranjana* p. 48.

Hygrophorus firmus var. *roseus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Syntypes: Singapore/Malaysia, more collection sites mentioned (probably in herb. E.H.J. Corner).

Hygrophorus firmus var. *sericeus* Corner, Transactions. The British Mycological Society 20: 178. 1936.

Type: Singapore, Bukit Timah, no date, E.H.J. Corner (probably herb. E.H.J. Corner).

Hygrophorus firmus var. *stenophyllus* Corner, Transactions. The British Mycological Society 20: 179. 1936.

Holotype: Malaysia, Pahang, Fraser's Hill, 27 May 1930, E.H.J. Corner (herb. E.H.J. Corner).

Hygrophorus firmus var. *stratiotes* Corner, Transactions. The British Mycological Society 20: 177. 1936.

Type: Not designated. Protologue based on material from Malaysia/Singapore.

Hygrophorus flavellus Britzelm., Botanische Centralblatt 62, no. 10 (23): 309 (p. 12 in separate print). 1895.

Type: Not designated. Protologue, with illustration (plate 458 no. 111), based on material from Germany, Bayern, near Augsburg.

Hygrophorus flavonitens A. Blytt, Norges Hymenomyceter: 89. 1905 (Videnskabs-Selskabets Skrifter. I Math.-Naturv. Kl. 1904. No. 6).

Type: Not designated. Protologue based on material from Norway. No material in O (G. Gulden pers. comm.).

= Probably *Hygrocybe flavipes* (Britzelm.) Bon.

Hygrophorus fleischerianus Henn., Monsunia 1: 148 (p. 50 in separate print). 1899.

Holotype: Indonesia, Java, Tjibodas, 27 July 1898, M. Fleischer (B, lost during Second World War (Hein 1989)).

Hygrophorus fulvosiformis (Murrill) Murrill, Lloydia 5: 156. 1942.

Basionym: *Camarophyllus fulvosiformis* Murrill, Lloydia 5: 136. 1942.

Holotype: USA, Florida, Gainesville, 21 Jan. 1940, J.R. Watson, & W.A. Murrill F-20129 (FLAS). Studied by Hesler & Smith (1963).

Hygrophorus fumosellus A.H. Smith & Hesler, *Sydowia* 8: 316. 1954.

Holotype: USA, Tennessee, Knox Co., New Hopewell, 17 Dec. 1941, L.R. Hesler 14105 (TENN). Supplementary type description by Hesler & Smith (1963).

Hygrophorus furcatus Velen., *České Houby*: 100. 1920.

Holotype: Czech Republic, near Myslín, Mnichovice, Aug. 1917, J. Velenovský (PRC).

= Perhaps *Hygrocybe pratensis* var. *pallida* (Cooke) Arnolds.

Aeruginospora furfuracea E. Horak, *Beihefte zur Nova Hedwigia* 43: 125. 1973.

Type: New Zealand, Westland, Ngahere, Kopara, 29 Mar. 1968, E. Horak (holotype PDD no. 27075, isotype ZT no. 68/231). Supplementary type description by Horak (1990).

Note: Should probably be transferred to *Camarophylloopsis*.

Hygrophorus fuscovillosulus S. Imai, *The Botanical Magazine, Tokyo* 53: 396. 1939.

Holotype: Japan, Hokkaido, Isikari, Nopporo, 30 oct. 1938, S. Imai, herb. not indicated.

≡ *Camarophyllus fuscovillosulus* (S. Imai) S. Ito 1959: 72.

Hygrophorus gedehensis Henn., *Monsunia* 1: 147 (p. 49 in separate print). 1899.

Holotype: Indonesia, Java, Tjibodas, 14 July 1898, M. Fleischer (B, lost during Second World War (Hein 1989)).

Hygrophorus gentilitius Britzelm., *Bericht des Naturhistorischen Vereins in Augsburg* 28: 135. 1885.

Type: Not designated. Protologue, with illustration (plate 439 no. 32), based on material from Germany, Bayern, Thaler Höhe at Thalkirchdorf near Augsburg.

Hygrophorus gilvus Kalchbr., *Proceedings of the Linnean Society of New South Wales* 7: 105. 1882.

Type: Australia, Victoria, Western Port, no date, M.R. Lewellin, no material at K (Young & Wood 1997).

Hygrophorus glanduliformis Berk. & Broome, *The Journal of the Linnean Society. Botany* 11: 566. 1871.

Holotype: Sri Lanka, July 1869, Thwaites 879 (K). Studied by Pegler (1986).

= *Hygrocybe roseostriata* (Berk. & Broome) Pegler (Pegler 1986), *Camarophyllus bicolor* (Berk. & Broome) Pegler (Pegler 1986).

Hygrophorus glaucus P. Karst., *Mycologia Fennica (Bidrag till Kännedom af Finlands Natur och Folk)* 25: 199. 1876.

Type: Finland, Myllyperä near Mustiala, Sept. 1870, not collected. One of Karsten's collections 3723 or 3724 (H) (S. Huhtinen pers. comm.) could be designated as epitype.

≡ *Camarophyllus cinereus* * *C. glaucus* (P. Karst.) P. Karst. 1879: 226, *Camarophyllus cinereus* var. *glaucus* (P. Karst.) P. Karst. 1881: 13.

Hygrophorus globisporus Velen., Mykologia 3: 72. 1926.

Syntypes: Czech Republic, above Myšlín, near Mnichovice and Hura Mt above Vsestary at Mnichovice, Oct. 1925, J. Velenovský, herb. not indicated, no material in PRC or PRM (J. Holec pers. comm.).

= *Hygrocybe flavipes* (Britzelm.) Bon (Lange 1938).

Hygrophorus gloriae G. Stev., Kew Bulletin 16: 382. 1962.

Holotype: New Zealand, Wellington, Hokio, 29 July 1951, G. Parsons (G. Stevenson 816) (K). Studied by Horak (1990).

≡ *Gliophorus gloriae* (G. Stev.) E. Horak 1971: 426.

Note: By Horak (1990) regarded as a *Hygrophorus* s.s., although it is considered to be saprobic.

Hygrophorus glossatus Britzelm., Bericht des Naturhistorischen Vereins in Augsburg 28: 135. 1885.

Type: Not designated. Protologue, with illustration (plate 439 no. 28), based on material from Germany, Bayern, Stadtbergen near Augsburg.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill (Bresinsky & Stangl 1966).

Hygrophorus gomphidioides Henn., in Voeltzkow: Reise in Ostafrika, band III: 26. 1908.

Holotype: Madagascar, Sakana, Sept. 1904 (B, lost during Second World War (Hein 1989)). Only illustration in protologue (plate 2 fig. 15) extant.

Note: Non *Hygrophorus gomphidioides* Coker (1929) illegitimate name.

Hygrophorus graveolens A.H. Smith & Hesler, Sydowia 8: 316. 1954.

Holotype: USA, Oregon, Mt Hood, Salmon River, near East Fork, 8 Oct. 1947, A.H. Smith 27411 (MICH).

Camarophyllus grinlingii Singer, Beihefte zur Sydowia 7: 2. 1973.

Holotype: Congo-Brazzaville, Rte. de Linzolo Djoumouna, K. Grinling 71106 (F).

Camarophyllus griseorufescens E. Horak, New Zealand Journal of Botany 28: 277. 1990.

Holotype: New Zealand, North Auckland, Little Barrier Island, Mt Hauturu, 12 June 1981, E. Horak (PDD no. 27230).

Hygrophorus haematocephalus Berk. & M.A. Curtis, Annals and magazine of natural history. Second series 12: 424. 1853.

Holotype: USA, South Carolina, Aug., H.W. Ravenel (M.A. Curtis 2893) (K). A few comments on the type are given by Murrill (1916a).

Hygrophorus hiemalis Velen., Novitates Mycologicae Novissimae: 15. 1947.
Type: Not designated. Protologue based on material from Czech Republic, near Mnichovice. Material collected by Velenovský in PRM.
 ≡ *Hygrophorus hiemalis* Velen. 1939: 22 nomen nudum.
Note: Non *Camarophyllopsis hiemalis* (Singer & Clemençon) Arnolds.

Camarophyllus hieronymi Singer, Sydowia 30: 277. 1977.
Holotype: Bolivia, La Paz, Nor-Yungas, San Gerónimo, 7 Feb. 1956, R. Singer B-968 (F).

Hygrophorus hispidus Velen., České Houby: 104. 1920.
Holotype: Czech Republic, Křečkii near Mnichovice, July 1914, J. Velenovský, herb. not indicated. No material in PRC or PRM (J. Holec pers. comm.).

Hygrophorus houghtonii Berk. & Broome (as *H. "houghtoni"*), Annals and magazine of natural history. Fourth series 11: 342. 1873.
Holotype: UK, England, Preston, Salop, 21 Oct. 1872, herb. not indicated.
 = *Hygrocybe laeta* (Pers.: Fr.) P. Kumm. (Arnolds 1974b).

Hygrophorus hypholomoides Henn., Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 30: 50. 1902.
Holotype: Camaroon, Bipindi, Mar. 1899, G. Zenker 1991 (B, lost during Second World War (Hein 1989)).

Hygrophorus igneus Velen., České Houby: 110. 1920.
Syntypes: Czech Republic, Myšlín and Mnichovice, July 1916, 1919, J. Velenovský, (PRC at least 1916 material).

Hygrophorus impudicus Velen., České Houby: 108. 1920.
Holotype: Czech Republic, Karlicensi, near Roblín, July 1916, J. Velenovský (PRC).

Hygrophorus inocyboides R. Heim, Revue de Mycologie 32: 208 (description in French p. 24). 1967.
Holotype: Papua New Guinea, Western Highlands, Kondambi, Aug. or Sept. 1963, R. Heim 66b (PC).

Godfrinia intermedia var. *citrina* Herink, Acta Musei Bohemiae septentr. Liberecensis 1: 67. 1958.
Holotype: Czech Republic, Mnichovo Hradiště, Velká Horka, 29 Aug. 1957, D. Herinková (herb. J. Herink 492/57).

Hygrophorus involutus G. Stev., Kew Bulletin 16: 373. 1962.
Holotype: New Zealand, Wellington, Butterfly (Creek), 2 June 1958, G. Stevenson 1347 (K). Studied by Horak (1973, 1990) and Young & Wood (1997).
Note: By Horak (1990) and Young (2000a) regarded as a *Hygrophorus* s.s., although it is considered to be saprobic (Horak 1990).

Hygrophorus irrigatus var. *pallescens* Britzelm., Hymenomyceten aus Südbayern VIII. teil: 11. 1891.

Type: Not designated. Protologue, with illustration (plate 447 no. 64b), based on material from Germany, Bayern, near Augsburg.

Hygrophorus isabellinus Henn., in Voeltzkow: Reise in Ostafrika, band III: 26. 1908.

Type: Madagascar, N. Mahafaly, no date (B, however lost during Second World War (Hein 1989)). Only illustration in protologue (plate 2 fig. 14) extant.

Note: Caption to plate 2 fig. 14 writes *Hygrophorus pseudisabellinus*.

Hygrophorus juruensis Henn., Hedwigia 43: 181. 1904.

Holotype: Brazil, Rio Juruá, Bom Fim, Nov. 1900, E. Ule 2700, (B, however lost during Second World War (Hein 1989)).

Hygrophorus kilimandscharicus Henn., in Engler: Pflanzwelt Ost-Afrikas und der Narbengebiete C: 59. 1895.

Holotype: Tanzania, Northern province, Moshi Distr., Marangu, Volkens 1090, (B, however lost during Second World War (Hein 1989)).

Camarophyllus laccarioides Singer, Sydowia 6: 170. 1952.

Holotype: Argentina, Tierra del Fuego, Rio Grande, Est. Nueva Argentina, 16 feb. 1950, R. Singer M-300 (LIL).

Hygrophorus lactarioides Henn., Monunia 1: 148 (p. 50 in separate print). 1899.

Type: Indonesia, Java, Tjibodas, 24 June 1898, M. Fleischer (B, however lost during Second World War (Hein 1989)). Horak (1980) described a "topotype" (ZT).
≡ *Camarophyllus lactarioides* (Henn.) E. Horak 1980: 49.

Note: Non *Hygrocybe lactarioides* Singer.

Hygrophorus lawrencei Hesler & A.H. Smith, North American Species of *Hygrophorus*: 50. 1963.

Holotype: USA, Oregon, near Applegate, 24 Jan. 1959, Fred Lawrence 1162 (MICH).

= *Hygrocybe russocoriacea* (Berk. & T.K. Mill.) P.D. Orton & Watling (Largent 1985b).

Hygrophorus lectus Britzelm., Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg in Augsburg 30: 30 (p. 200 in complete edition of Hymenomyceten aus Südbayern). 1890.

Type: Not designated. Protologue, with illustration (plate 446 no. 63a, b), based on material from Germany, Bayern, near Augsburg.

= *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling (Bresinsky & Stangl 1966 as *Camarophyllus niveus*).

Hygrophorus lilacinogriseus Hongo, Journal of Japanese Botany 38: 233. 1963.

Holotype: Japan, Shiga, Seta-chô, Dô, 4 Oct. 1960, T. Hongo 2131 (herb. T. Hongo).

≡ *Camarophyllus lilacinogriseus* (Hongo) Hongo 1982: 91.

Note: Should probably be transferred to *Camarophyllopsis*.

Camarophyllus lilacinus (Cleland & Cheel) E. Horak, New Zealand journal of botany 28: 203. 1990. See *Hygrocybe cheeli* p. 20.

Hygrophorus lugubris Rick, Brotéria: Serie Botanica 18: 62. 1920.

Type: Not designated. Protologue based on material from Brazil, Rio Grande do Sul. No material available (Raitelhuber 1992).

≡ *Hygrocybe lugubris* (Rick) Raitelh. 1992: 22 invalidly published (no basionym, Art. 33.3).

Note: Rick (1938: 306) published it again as a “nova spec.”

Hygrophorus luridoflavus Henn., Monsunia 1: 148 (p. 50 in separate print). 1899.

Holotype: Indonesia, Java, Kandang-Badak, 18 July 1898, M. Fleischer (B, however lost during Second World War (Hein 1989)).

Hygrophorus luteistipes Dennis, Kew Bulletin 8: 264. 1953.

Holotype: Trinidad, Morne Bleu, no date, R.W.G. Dennis 424 (K). Studied by Hesler & Smith (1963).

Hygrophorus luteus Velen., České Houby: 105. 1920.

Type: Czech Republic, near Mnichovice, Aug. 1915, J. Velenovský (PRC).

Note: Non *Hygrophorus luteus* Sacc. 1891 illegitimate name (superfluous renaming and probably a misspelling of *Hygrophorus lactus* A.E. Johnson 1878: 336).

Agaricus macromphalus Mont., Annales des sciences naturelles, 4. séries. Botanique 5: 355. 1856.

Type: Brazil, Goiás, H.A. Weddell 14/174 (PC, painting only). Studied by Pegler (1990).

≡ *Clitocybe macromphala* (Mont.) Sacc. 1887: 182.

Note: According to Pegler (1990) a “*Camarophyllus*”.

Hygrophorus mamillatus Largent, Mycotaxon 23: 386. 1985.

Holotype: USA, California, Del Norte Co., Prairie Creek State Park, 14 Nov. 1983, D. Largent DDL-8565 (HSU).

Hygrophorus marginatus var. *concolor* A.H. Smith, Papers of the Michigan academy of science, arts and letters 38: 59. 1953.

Holotype: USA, Michigan, Tahquamenon Falls State Park, 5 Sept. 1949, A.H. Smith 33324 (MICH).

Hygrophorus marginatus var. *olivaceus* A.H. Smith & Hesler, *Lloydia* 5: 40. 1942.

Holotype: USA, Washington, Baker Lake, Noisy Creek, 5 Sept. 1941, A.H. Smith 26633-S (MICH).

≡ *Tricholoma marginatum* var. *olivaceum* (A.H. Smith & Hesler) Singer 1951a: 224, *Humidicutis marginata* var. *olivacea* (A.H. Smith & Hesler) Singer 1962a: 200 invalidly published (no reference to publication of basionym, Art. 33.3).

Hygrophorus maroniensis R. Heim, *Revue de Mycologie* 32: 210 (description in French p. 21). 1967.

Holotype: French Guyana, Crique Balaté, bord du Maroni, pres St-Laurent de Maroni, 24 Aug. 1952, R. Heim 50, herb. not indicated, but probably PC.

Camarophyllus microbicolor S. Ito & S. Imai, in S. Ito: *Mycological Flora of Japan* 2 (5): 71. 1959 (nomen novum).

Replaced synonym: *Hygrophorus bicolor* S. Ito & S. Imai, *Transactions of the Sapporo natural history society* 16: 14. 1939 illegitimate name.

Syntypes: Japan, Bonin Islands, Chichi-shima and Haha-shima, Nov. 1936, five collections quoted, herb. not indicated.

Note: Non *Hygrophorus bicolor* Berk. & Broome (1871a), nec *Hygrophorus bicolor* P. Karst. (1878) illegitimate name.

Hygrophorus miniaceus Beck, *Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien* 39: 609. 1889.

Holotype: Austria, Sonntagsberg near Rosenau, Sept., A. Zahlbruckner, herb. not indicated.

Hygrophorus miniatus var. *firmus* A.H. Smith & Hesler, see *Hygrocybe squamulosa* p. 63.

Hygrophorus miniatus forma *longipes* A.H. Smith & Hesler, *Sydowia* 8: 321, 1954.

Holotype: USA, Michigan, Luce Co., Pike Lake, 11 Sept. 1953, A.H. Smith 42560 (MICH).

Hygrophorus miniatus var. *sphagnophilus* Peck, see *Hygrocybe coccineocrenata* var. *sphagnophila* p. 24.

Hygrophorus miniatus var. *subluteus* Peck, *Forty-first annual report of the trustees of the State Museum of Natural History for the year 1887*: 84. 1888.

Holotype: USA, New York State, Catskill Mountains, Sept., C.H. Peck (NYS).

Hygrophorus mississippiensis Cibula, *Mycotaxon* 10: 106. 1979.

Holotype: USA, Mississippi, near Saucier, 8 Aug. 1974, W. Cibula 485 (MASS).

Hygrophorus mucilaginosus Berk. & M.A. Curtis, *Hooker's Journal of Botany and Kew Garden Miscellany* 1: 98. 1849.

Holotype: USA, South Carolina, July 1847, M.A. Curtis 1258 (K). Studied by Murrill (1916a) and Hesler & Smith (1963).

Hygrophorus mucronellus var. *depressus* Britzelm., Hymenomyceten aus Südbayern VIII. teil: 11. 1891.

Type: Not designated. Protologue, with illustration (plate 439 no. 27 and plate 447 no. 66, 67), based on material from Germany, Bayern, near Augsburg.
= *Hygrocybe cantharellus* (Schwein.) Murrill (Bresinsky & Stangl 1966).

Hygrophorus mucronellus forma *striatus* Killerm. (as *H. m. forma* “*striata*”), Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 66. 1933.

Type: Germany, Bayern, Bergmating, July 1914, S. Killermann, herb. not indicated.

Hygrophorus murinus C.J. Bird & Grund, Canadian Journal of Botany 48: 408. 1970.

Holotype: Canada, Nova Scotia, Kings Co., Gaspereau Valley, 3 Nov. 1967, C.J. Bird CB-42 (ACAD).

Hygrophorus muritaiensis G. Stev., Kew Bulletin 16: 378. 1963.

Holotype: New Zealand, Wellington, Muritai, 2 June 1958, C. Cone (G. Stevenson 1352) (K). Studied by Horak (1973, 1990).

≡ *Camarophyllus muritaiensis* (G. Stev.) E. Horak 1971: 438, *Camarophyllus muritaiensis* (G. Stev.) E. Horak 1973: 119 superfluous combination.

Hygrophorus mutabilis Petch, Annals of the Royal Botanic Garden Peradeniya 7: 280. 1922.

Holotype: Sri Lanka, Central Prov., Nuwara Eliya Distr., Hakgala, Dec. 1917, Petch 5596 (K). Studied by Pegler (1986).

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. (Pegler 1986).

Hygrophorus mycenoides A.H. Smith & Hesler, Lloydia 5: 42. 1942.

Holotype: USA, Tennessee Great Smoky Mts. National Park, 10 Aug. 1938, A.H. Smith 9988 (MICH).

Note: Non *Hygrophorus mycenoides* Velen. (1947) illegitimate name.

Hygrophorus nigricans Berk., The Journal of the Linnean Society. Botany 13: 160. 1873.

Type: Australia, no information about locality or date, no material at K (Young & Wood 1997).

Hygrophorus nitratus var. *thejophyllus* Bres., Iconographia Mycologica 8: pl. 354, 2. 1928.

Type: Not designated. Protologue based on material from Italy, Trento.

Hygrophorus niveicolor (Murrill) A.H. Smith & Hesler, Lloydia 5: 23. 1942.

Basionym: *Clitocybe niveicolor* Murrill, Mycologia 3: 190. 1911.

Holotype: Mexico, Motzorongo, 15 Jan. 1910, W.A. & E L. Murrill 1058 (NY). Studied by Singer (1942) and Hesler & Smith (1963).
≡ *Camarophyllus niveicolor* (Murrill) Singer 1942: 99.

Hygrophorus niveus var. *cucullatus* (Pers.) Quél., Les champignons du Jura et des Voges: 190. 1872.

Basionym: *Agaricus cucullatus* Pers. Synopsis methodica fungorum: 372. 1801.
Type: Not designated. Protologue based on material from Europe.

Hygrophorus niveus forma *griseus* Britzelm. (as *H. n.* “forma grisea”), Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 449 no. 72), based on material from Germany, Bayern, near Augsburg.

Hygrophorus nordmanensis Hesler & A.H. Smith, North American Species of *Hygrophorus*: 65. 1963.

Holotype: USA, Idaho, Nordman, near Granite Creek, 9 Oct. 1956, A.H. Smith 54328 (MICH).

Hygrophorus obconicus Peck, New York State Museum Bulletin 131: 36. 1909.

Holotype: USA, Massachusetts, Stow, Sept. 1907, S. Davis (NYS). Studied by Hesler & Smith (1963).

≡ *Camarophyllus obconicus* (Peck) Murrill 1916a: 386.

Note: Should probably be transferred to *Camarophyllopsis*.

Hygrophorus obrusseus forma *pusillus* S. Imai, The Botanical Magazine, Tokyo 55: 446, 1941.

Holotype: Japan, Honshu, Musashi, Yokoyama-mura, 12 Oct. 1940, S. Imai, herb. not indicated.

Camarophyllus obscuratus P. Karst., Hedwigia 28: 364. 1889.

Type: Not designated. Protologue based on material from Finland, near Mustiala. No voucher material in H (S. Huhtinen pers. comm.).

Hygrophorus ochraceomellinus Velen., Novitates Mycologicae Novissimae: 14. 1947.

Holotype: Czech Republic, near Tremblaty, Nov. 1940, J. Velenovský (PRM).

Cuphophyllus ochraceopallidus var. *mesophaeus* Bon, Documents mycologiques 24 (96): 17. 1995.

Holotype: France, Somme, Occoches, 15 Nov. 1994, M. Bon 94160 (herb. M. Bon).

Hygrophorus ohiensis Mont., Sylloge generum specierumque plantarum cryptogamarum: 135. 1856.

Holotype: USA, Ohio, Columbus, Sullivant 163 (PC). Studied by Murrill (1916a).

Camarophyllus olidus Pegler, A preliminary Agaric flora of East Africa: 49. 1977.

Holotype: Uganda, Buganda Province, Mengo Distr. Mpanga Res. For., 7 June 1968, D. Pegler 1236 (K).

Hygrophorus olivaceus Velen., České Houby: 104. 1920.

Holotype: Czech Republic, between Menčice and Mnichovice, July 1918, J. Velenovský (PRC).

Hygrophorus olivascens A.H. Smith & Hesler, Sydowia 8: 328. 1954.

Holotype: USA, Michigan, Tahquamenon Falls State Park, 24 July 1952, A.H. Smith 39276 (MICH).

Hygrophorus ortonii (Bon) ex Dennis, Fungi of the Hebrides: 48, 1986 (nomen novum (Art. 58.1)).

Replaced synonym: *Hygrocybe ortonii* Bon, illegitimate name, Documents mycologiques 13 (50): 27. 1983 (superfluous nomen novum for *Hygrocybe berkeleyi* P.D. Orton (Arnolds 1986d)).

Type: UK, England, Devon, Membury, 3 Nov. 1956, P.D. Orton (K).

Hygrophorus pallidus Peck, Bulletin of the Torrey Botanical Club 29: 69. 1902.

Holotype: USA, Massachusetts, 11 Sept. 1910, S. Davis (NYS). Studied by Hesler & Smith (1963) who doubt its origin.

≡ *Camarophyllus pallidus* (Peck) Murrill 1916a: 386.

Note: Non *Hygrophorus pallidus* Velen. illegitimate name, nec *Hygrocybe pallida* (A.H. Smith) Singer, nec *Gliophorus pallidus* E. Horak.

Gliophorus pallidus E. Horak, Beihefte zur Nova Hedwigia 43: 164. 1973.

Type: New Zealand, Gisborne, Urewera National Park, Ngamoko Track, 27 June 1968, E. Horak (holotype PDD no. 27090, isotype ZT no. 68/613). Supplementary type description by Horak (1990).

≡ *Hygrocybe pallida* (E. Horak) A.M. Young (in Young & Wood) 1997: 992 illegitimate name.

= *Hygrocybe graminicolor* (E. Horak) T.E. May & A.E. Wood (Young 1999).

Note: Non *Hygrophorus pallidus* Peck, nec *Hygrophorus pallidus* Velen. illegitimate name, nec *Hygrocybe pallida* (A.H. Smith) Singer.

Hygrophorus palustris V.L. Wells & Kempton, Beihefte zur Nova Hedwigia 51: 347. 1975.

Holotype: USA, Alaska, near Anchorage, 14 Sept. 1972, V.L. Wells & P.E. Kempton 5944 (MICH).

= *Hygrocybe lilacina* (C. Laest. ex P. Karst) M.M. Moser.

Hygrophorus papillatus Dennis, Kew Bulletin 8: 263. 1953.

Holotype: Trinidad, Northern Range, no date, R.W.G. Dennis 49 (K). Studied by Hesler & Smith (1963).

Camarophyllus paraiboensis Singer, Sydowia 30: 278. 1977.

Holotype: Brazil, Paraibo, near João Pessoa, 11 July 1960, R. Singer B-3334 (BAFC).

Note: Non *Hygrocybe paraibensis* Singer 1965.

Hygrophorus parvipes Britzelm., Botanische Centralblatt 62, no. 10 (23): 309 (p. 12 in separate print). 1895.

Type: Not designated. Protologue, with illustration (plate 457 no. 108), based on material from Germany, Bayern, near Augsburg.

Camarophyllus patagonicus Singer, Beihefte zur Nova Hedwigia 29: 9. 1969.

Holotype: Chile, near Puerto Montt, R. Singer (SGO).

≡ *Camarophyllus recurvatus* var. *patagonicus* Raitelh. 1992: 16 invalidly published (no basionym, Art. 33.3).

Hygrophorus pernambucensis A.C. Batista & A.F. Vital, in A.C. Batista: Mycolopathologia et Mycologia applicata 8: 127. 1957.

Holotype: Brazil, Recife, Jardim Zoo-Botanico - Dois Irmãos, 14 Nov. 1954, O. Soares, (URM no. 1116).

Hygrophorus pertractatus Britzelm., Bericht des Naturhistorischen Vereins in Augsburg 28: 136. 1885.

Type: Not designated. Protologue, with illustration (plate 440 no. 39), based on material from Germany, Bayern, near Augsburg.

= Perhaps *Hygrocybe chlorophana* (Fr.: Fr.) Wünche (Bresinsky & Stangl 1966).

Hygrophorus pictus Berk. & M.A. Curtis, Proceedings of the American Academy of Arts and Sciences 4: 119. 1860.

Type: Not designated. Protologue based on material from China, Hong Kong collected by C. Wright. Material (K) perhaps available for lectotypification.

Hygrophorus plumbeus Rick, Lilloa 2: 307. 1938.

Type: Not designated. Protologue based on material from Brazil, Rio Grande do Sul.

Hygrophorus prasinus Mont., Annales des sciences naturelles 4. Botanique 5: 362. 1856.

Type: Paraguay, Apr., H.A. Weddell 19/209, painting mentioned, but not described by Pegler (1990).

Note: Non *Hygrophorus prasinus* Berk. & Broome 1871a: 563 illegitimate name.

Hygrophorus pratensis forma coriicolor Bres., Öfversigt af Kungliga Vetenskabs-Akademiens Förhandlingar 1900 2: 312. 1900.

Holotype: Argentina, Tierra del Fuego, Rio Grande, 16 Jan. 1896, O. Nordenskjöld 74, herb. not indicated. Not in UPS nor S (R. Moberg pers. comm., K. Jaederfeldt pers. comm.)

= *Hygrocybe adonis* (Singer) Boertm. (Singer & Digilio 1952, Singer 1952 both as *Camarophyllus adonis*).

Agaricus pratensis β *ericosus* Fr.: Fr. Observationes Mycologicae II: 117. 1818 (sanctioned in Systema mycologicum I: 100. 1821).

Type: Not designated. Protologue based on material from Sweden.

Note: Apparently not mentioned in the literature since 1821.

Camarophyllus pratensis forma *fulvolamellatus* F.H. Møller, Fungi of the Færoes: 128. 1945.

Syntypes: Faeroe Islands, Eysturoy, Skáli and Nólsoy (25 Aug. 1938), F. H. Møller (C, probably).

≡ *Cuphophyllus pratensis* var. *fulvolamellatus* (F.H. Møller) Bon 1990b: 37.

Note: Bon (1990b) erroneously quoted the basionym as *Camarophyllus pratensis* var. *fulvolamellatus* F. H. Møller (Bon 1991a: 46), which is why his action also was a change of status (stat. nov.).

Camarophyllus pratensis var. *gracilipes* R. Schulz, in Michael & R. Schulz, Führer für Pilzfreunde, Ausgabe B, II: no. 248. 1926

Type: Not designated. Protologue, with illustration (plate 248), based on material from Germany.

= *Hygrocybe pratensis* (Pers.: Fr.) Murrill.

Camarophyllus pratensis var. *gracilis* E. Horak, Beihefte zur Nova Hedwigia 43: 123. 1973.

Type: New Zealand, South Auckland, Coromandel Peninsula, Kauaeranga Valley, 8 July 1968, E. Horak (holotype PDD no. 27074, isotype ZT no. 68/651). Supplementary type description by Horak (1990).

Hygrophorus pratensis var. *meisneriensis* (Pers.) W.G. Sm., New British Fungi: 336. 1873.

Basionym: *Agaricus pratensis* γ . *Ag. meisneriensis* Pers. Synopsis methodica fungorum 305. 1801.

Type: Not designated. Protologue based on material from Germany, Mt Meisner.

Note: The combination in *Hygrophorus* is usually ascribed Fries (1863). However, this combination is not explicitly mentioned there; this is first done by Smith (1873).

Hygrophorus pratensis forma *minor* (Britzelm.) Britzelm. 1893: 98 (p. 15 in separate print).

Basionym: *Hygrophorus pratensis* β *minor* Britzelm., Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg 30: 30. 1890.

Type: Not designated. Protologue, with illustration (plate 445 no. 58a), based on material from Germany, Bayern, near Augsburg.

Hygrophorus pratensis var. *robustus* Hesler & A.H. Smith, North American Species of *Hygrophorus*: 76. 1963.

Holotype: USA, Michigan, Washtenaw County, Sharon Hollow, 6 Oct. 1961, A.H. Smith 64616 (MICH).
≡ *Cuphophyllus pratensis* var. *robustus* (Hesler & A.H. Smith) Bon 1989b: 73.

Hygrophorus pratensis var. *umbrinus* W.G. Sm., Synopsis of the British Basidiomycetes: 260. 1908.

Type: Not designated. Protologue based on material from UK, England.

Note: W.G. Smith might have described this taxon in an earlier publication.

Hygrophorus pseudericus Henn., in Voeltzkow: Reise in Ostafrika, band III: 26. 1908.

Holotype: Madagascar, Ste. Marie, Aug. 1904 (B, however lost during Second World War (Hein 1989)). Only illustration in protologue (plate 2 fig. 13) extant.

Hygrophorus pseudococcineus Velen., České Houby: 106. 1920.

Type: Czech Republic, Vidovle, near Prague, near Hlubočepy St. Prokob, Oct. 1918, J. Velenovský, herb. not indicated, no material in PRC or PRM (J. Holec pers. comm.).

Hygrophorus pseudopallidus Hesler & A.H. Smith, North American Species of *Hygrophorus*: 94. 1963.

Holotype: USA, Tennessee, Great Smoky Mts. National Park, Cades Cove, 8 June 1957, Hesler 14439 (TENN).

Hygrophorus pseudoparvulus Hesler & A.H. Smith, North American Species of *Hygrophorus*: 178. 1963.

Holotype: USA, Michigan, Tahquamenon Falls State Park, 23 July 1951, A.H. Smith 37024 (MICH).

Hygrophorus psittacinus var. *californicus* Hesler & A.H. Smith, North American Species of *Hygrophorus*: 227. 1963.

Holotype: USA, California, Prairie Creek State Park, 5 Dec. 1956, A.H. Smith 56310 (MICH).

Hygrophorus psittacinus forma *elongatus* Killerm. (as *H. p.* forma “*elongata*”), Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 68. 1933.

Type: Germany, Bayern, Opf. Jugenberg, Aug. 1914, S. Killermann, herb. not indicated.

Hygrophorus psittacinus forma *tenuis* Killerm., Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 68. 1933.

Type: Germany, Bayern, Nb. Vilshofen a. D., Sept. 1917, S. Killermann, herb. not indicated.

Note: Diagnosis very brief.

Hygrophorus pulcherrimus Velen., České Houby: 107. 1920.

Holotype: Czech Republic, Karlicensi, near Roblín, July 1916, J. Velenovský (PRC).

Note: Non *Hygrocybe pulcherrima* Fayod (1889).

Hygrophorus pygmaeus Berk. & Broome, The Journal of the Linnean Society. Botany 11: 564. 1871.

Holotype: Sri Lanka, Central Prov., Kandy Distr., Peradeniya, Jan. 1869, Thwaites 928 (K).

= *Hygrocybe roseostriata* (Berk. & Broome) Pegler (Pegler 1986).

Hygrophorus quadricolor R. Heim, Revue de Mycologie 32: 209 (description in French p. 25). 1967.

Holotype: Papua New Guinea, Western Highlands, Kondambi, 28 Aug. 1963, R. Heim 67 (PC).

Hygrophorus rainierensis Hesler & A.H. Smith, North American Species of *Hygrophorus*: 64. 1963.

Holotype: USA, Washington, Mt Rainier National Park, near Lower Tahoma Creek, 27 Sept. 1955, A.H. Smith 47958 (MICH).

≡ *Camarophyllus rainierensis* (Hesler & A.H. Smith) Singer 1977: 278.

Hygrophorus ravenelii Berk. & M.A. Curtis, Annals and magazine of natural history. Second series 12: 424. 1853.

Holotype: USA, South Carolina, Sept. H.W. Ravenel (M.A. Curtis 2889) (K). Studied by Hesler & Smith (1963).

Hygrophorus recurvatus Peck, New York State Museum Bulletin 157: 28. 1912.

Holotype: USA, New York State, Canandaigua, Oct. 1911, E.C. Webster (NYS). Studied by Hesler & Smith (1963).

≡ *Camarophyllus recurvatus* (Peck) Murrill 1916a: 388.

= *Omphalina australis* Murrill (Hesler & Smith 1963), *Clitocybe praticola* Murrill (Hesler & Smith 1963).

Hygrophorus rigelliae Velen., České Houby: 101. 1920.

Holotype: Czech Republic, near Chlumec n/Cidl., Oct. 1916, Rigellová (PRC).

≡ *Camarophyllus rigelliae* (Velen.) Herink 1958: 59, *Cuphophyllus rigelliae* (Velen.) Bon 1989b: 73.

= Perhaps *Hygrocybe radiata* Arnolds (Boertmann 1995).

Hygrophorus rubescens Beck, Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien 39: 609. 1889.

Holotype: Austria, near Kranichberg, Sept., L. Ganglbauer, herb. not indicated.

Note: Non *Agaricus rubescens* Pers., nec *Hygrophorus rubescens* Velen. illegitimate name.

Hygrophorus rubripes Velen., České Houby: 101. 1920.

Type: Czech Republic, Chuchle near Prague, Oct., J. Velenovský, (probably not qualifying as type designation), herb. not indicated. Material identified as *Hygrophorus rubripes* available in PRC.

Hygrophorus rufus Petch, Annals of the Royal Botanic Gardens, Peradeniya 6: 199. 1917.

Holotype: Sri Lanka, Kandy Distr. Peradeniya, 27 Oct. 1914, Petch 4220 (K). Studied by Pegler (1986).

= *Camarophyllus singularis* (Höhn.) Singer (Pegler 1986).

Hygrophorus salmonipes G. Stev., Kew Bulletin 16: 374. 1962.

Holotype: New Zealand, Wellington, Keith George Park, 30 May 1949, G. Stevenson 606 (K). Studied by Horak (1973, 1990).

Note: By Horak (1990) regarded as a *Hygrophorus* s.s., although it is considered to be saprobic.

Hygrophorus scarlatinus Kalchbr., Grevillea 8: 152. 1880.

Holotype: Australia, Queensland, Rockhampton, F. Mueller, no material at K (Young & Wood 1997).

Hygrophorus segregatus E. Horak, New Zealand Journal of Botany 28: 292. 1990.

Holotype: New Zealand, North Auckland, Waipoua, 22 June 1981, E. Horak (PDD no. 27225).

Note: By Horak (1990) regarded as a *Hygrophorus* s.s., although it is considered to be saprobic.

Hygrophorus siccus Velen., České Houby: 107. 1920.

Holotype: Czech Republic, near Myslín, June 1919, J. Velenovský, herb. not indicated, no material in PRC or PRM (J. Holec pers. comm.).

Hygrophorus silvaticus Hesler & A.H. Smith, North American Species of *Hygrophorus*: 91. 1963.

Holotype: USA, Michigan, Washtenaw County, 22 Sept. 1961, A.H. Smith 64392 (MICH).

Aeruginospora singularis Höhn., Sitzungsberichte der kaiserlichen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Klasse. 117 abt. 1: 1012. 1908.

Type: Indonesia, Java, Bogor, Buitenzorg, Botanic Garden, 1907, F. v. Höhnel. Type material in K studied by Pegler (1986) and type material (Höhnel Nr. 2538) in FH studied by Horak (1968).

≡ *Armillariella singularis* (Höhn.) Singer 1951a: 216, *Camarophyllus singularis* (Höhn.) Singer 1973: 3.

= *Hygrophorus rufus* Petch (Pegler 1986).

Hygrophorus sordidus Velen., České Houby 1922: 912.

Holotype: Czech Republic, near Řeporyje, Oct. 1920, J. Velenovský (PRC).

Hygrophorus spadiceus forma odoratus A.H. Smith & Hesler, Sydowia 8: 322, 1954.

Holotype: USA, Michigan, Cheboygan Co., near Rees' Bog, 1 July 1953, A.H. Smith 41403 (MICH).

Hygrophorus spectandus Britzelm., Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 453 no. 91), based on material from Germany, Bayern, near Augsburg.

= *Hygrocybe coccinea* (Schaeff.: Fr.) P. Kumm. (Bresinsky & Stangl 1966).

Hygrophorus sphaerosporus Peck, Bulletin of the Torrey Botanical Club 22: 486. 1895.

Holotype: USA, Iowa, Oct., C. McIlvaine (NYS). Studied by Smith & Hesler (1942) and Hesler & Smith (1963).

≡ *Camarophyllus sphaerosporus* (Peck) Murrill 1916a: 386.

Hygrophorus squamulifer Boud., Icones Mycologicae: 18, plate 35. 1905-1910.

Type: Not designated. Protologue based on material from France, Ecoen collected in Nov.

Hygrophorus stenophyllus Mont., Sylloge generum specierumque plantarum cryptogamarum: 135. 1856.

Holotype: USA, Ohio, Columbus, July, Sullivant 117 (PC). A few comments on the type given by Murrill (1916a).

Hygrophorus stowellii Hesler & A.H. Smith, North American Species of *Hygrophorus*: 130. 1963.

Holotype: USA, Michigan, Black Lake, 7 Aug. 1961, E. Stowell (A.H. Smith 63864) (MICH).

Hygrophorus subaromaticus (A.H. Smith & Hesler) Largent, The Agaricales (gilled fungi) of California. 5. Hygrophoraceae: 106. 1985.

Basionym: *Hygrophorus unguinosus var. subaromaticus* A.H. Smith & Hesler, Lloydia 5: 81. 1942.

Holotype: USA, California, Orick, Prairie Creek State Park, 28 Nov. 1937, A.H. Smith 9167 (MICH).

Hygrophorus subaustraligis Largent, Mycotaxon 23: 387. 1985.

Holotype: USA, California, Santa Cruz Co., Arora, 26 Jan. 1984, D. Largent (HSU).

Hygrophorus subaustralis A.H. Smith & Hesler, Lloydia 5: 46. 1942.

Holotype: USA, North Carolina, Great Smoky Mts. National Park, Martins Gap, along trail to Bryson Place, 2 Sept. 1938, A.H. Smith 10844 (MICH).

Hygrophorus subbasidiosus Largent, Mycotaxon 23: 383. 1985.

Holotype: USA, California, Contra Costa Co., Berkeley University, 6 Jan. 1939, V. Miller (UC no. 605287).

Note: Should perhaps be transferred to *Camarophylloopsis*.

Hygrophorus subcitrinopallidus Largent, Mycotaxon 23: 388. 1985.

Holotype: USA, California, Humboldt Co., Fern Lake, 24 Oct. 1984, D. Largent DLL-8504 (HSU).

Hygrophorus subcoccineus Henn., Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 28: 323. 1900.

Type: Tanzania, Usambara, Muapa, 17 Dec. 1895, J. Buchwald 45 (B, however lost during Second World War (Hein 1989)).

Hygrophorus subconicus Henn., Verhandlungen des Botanischen Vereins der Provinz Brandenburg 40: 133. 1898.

Holotype: Germany, Berlin Botanic Garden (in greenhouse), Sept. 1889, P. Hennings (B, however lost during Second World War (Hein 1989)). Only illustration in protologue (plate 1 fig. 8) extant.

Hygrophorus subfuscescens var. *odorus* A.H. Smith & Hesler (as *H. s.* var. "odora"), Sydowia 8: 318. 1954.

Holotype: USA, Michigan, Brutus, Maple River, Middle Bridge, 13 July 1947, A.H. Smith 25670 (MICH).

Note: Should probably be transferred to *Camarophylloopsis*.

Hygrophorus subluridus Murrill, Bulletin of the Torrey Botanical Club 66: 159. 1939.

Holotype: USA, Florida, Hunter's Station near Gainesville, 6 Sept. 1938, Rhoads & W.A. Murrill F-18292 (FLAS). Studied by Hesler & Smith (1963).

Hygrophorus subniveus S. Imai, Journal of the faculty of agriculture Hokkaido Imperial University 43: 108. 1938.

Type: Not designated. Protologue based on material from Japan, Hokkaido, Ishikari, Nopporo.

≡ *Camarophyllus subniveus* (S. Imai) S. Ito 1959: 69.

Hygrophorus subovinus Hesler & A.H. Smith, North American Species of *Hygrophorus*: 162. 1963.

Holotype: USA, Tennessee, Great Smoky Mts National Park, Cades Cove, 8 June 1957, L.R. Hesler 22583 (TENN).

Camarophyllus subpratensis (Beeli) ex Heinem., Bulletin du jardin botanique de l'état. Bruxelles 33: 424. 1963 (nomen novum, Art. 58.1).

Replaced synonym: *Hygrophorus subpratensis* Beeli, Bulletin de la société royale de botanique de Belgique 61: 99. 1928. illegitimate name.

Holotype: Zaire, Distr. du Haut-Ubangi et Uele, Mambongo, Rungu-Wamba, Apr. 1926, M. Goossens-Fontana 556 (BR). Studied by Heinemann (1963, 1966).

Note: Non *Hygrophorus subpratensis* Murrill 1911.

Hygrophorus subvirens Britzelm., Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg in Augsburg: 30 (p. 200 in complete edition of Hymenomyceten aus Südbayern). 1890.

Type: Not designated. Protologue, with illustration (plate 440 no. 34b), based on material from Germany, Bayern, near Augsburg.

≡ *Hygrophorus psittacinus forma subvirens* (Britzelm.) Killerm. 1933: 68.

= *Hygrocybe psittacina* (Schaeff.: Fr.) P. Kumm. (Bresinsky & Stangl 1966).

Hygrophorus subvirgineus Henn., Monsunia 1: 148 (p. 50 in separate print). 1899.

Holotype: Indonesia, Java, Tjibodas, 24 June 1898, M. Fleischer (B, however lost during Second World War (Hein 1989)).

Hygrophorus sydowianus Henn. (as *H. "sydovianus"*), Monsunia 1: 173 (p. 75 in separate print). 1899 (nomen novum).

Replaced synonym: *Hygrophorus minutulus* Henn., Monsunia 1: 147 (p. 49 in separate print). 1899, illegitimate name.

Holotype: Indonesia, Java, Tjibodas, 24 June 1898, M. Fleischer (B, however lost during Second World War (Hein 1989)).

Note: Non *Hygrophorus minutulus* Peck 1887.

Camarophyllus syrjensis P. Karst., Hedwigia 28: 364. 1889.

Type: Not designated. Protologue based on material from Finland, Syrjä near Mustiala. No voucher material in H (S. Huhtinen pers. comm.).

Hygrophorus tahquamenonensis A.H. Smith & Hesler, Sydowia 8: 331. 1954.

Holotype: USA, Michigan, Tahquamenon Falls State Park, Upper Falls, 3 Aug. 1953, L.R. Hesler & A.H. Smith 41821 (MICH).

Camarophyllus tehuelches (Speg.) Singer, Sydowia 6: 169. 1952.

Basionym: *Agaricus tehuelches* Speg., Boletín de la Academia Nacional de Ciencias de Córdoba 11: 6. 1887.

Holotype: Argentina, Estrecho de Magellanes, Gregory Bay, Apr. 1882, C. Spegazzini (LPS).

≡ *Clitocybe tehuelches* (Speg.) Sacc. 1891: 23, *Omphalia tehuelches* (Speg.) Speg. 1922: 68.

Hygrophorus tessellatus R. Heim, Revue de Mycologie 32: 208 (description in French p. 22). 1967.

Holotype: Papua New Guinea, Western Highlands, Kondambi near Mt Hagen, Aug. 1963, R. Heim 46b (PC).

Hygrophorus tjibodensis Henn. & E. Nyman, *Monsunia* 1: 14. 1899.

Holotype: Indonesia, Java, Tjibodas, July 1898, E. Nyman (B, however lost during Second World War (Hein 1989)).

Hygrophorus tristis forma minor Killerm., *Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.:* 67. 1933.

Syntypes: Germany, Bayern, Obb. Ammersee Ried, Sept. 1918, and Tölz Blomberg, Aug. 1917, S. Killermann, herb. not indicated.

Note: Although the specific name is superfluous and hence illegitimate (Arnolds 1986d), the infraspecific name is legitimate (Art. 55.2).

Hygrophorus tristis var. olivacea Killerm., *Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.:* 67. 1933.

Type: Germany, Bayern, Eibsee, Oct. 1932, S. Killermann, herb. not indicated.

Hygrophorus turundus var. lepidus Boud., *Bulletin de la Société Mycologique de France* 13: 12. 1897.

Type: Not designated. Protologue, with illustration (plate 1, fig. 2), based on material from France, Montmorency.

= *Hygrocybe cantharellus* (Schwein.) Murrill.

Hygrophorus turundus forma minor Hongo (as *H. t. forma "minus"*), *The Journal of Japanese Botany* 32: 145, 1957.

Holotype: Japan, T. Hongo 1350 (herb. T. Hongo).

Hygrophorus uliginosus Hesler & A.H. Smith, *North American Species of Hygrophorus:* 71. 1963.

Holotype: USA, Michigan, near Rose City, 16 Oct. 1948, A.H. Smith 31925 (MICH).

Hygrophorus umbrinus Dennis, *Kew Bulletin* 8: 257. 1953.

Holotype: Trinidad, St. Joseph, 14 Oct. 1949, R.W.G. Dennis 177 (K). Studied by Singer (1955) and Hesler & Smith (1963).

≡ *Camarophyllus umbrinus* (Dennis) Singer 1962a: 192 invalidly published (no reference to publication of basionym, Art. 33.3), *Camarophyllus umbrinus* (Dennis) Singer ex Pegler 1983: 49.

Note: Belongs perhaps to genus *Camarophyllopsis*.

Camarophyllus umbrinus var. clarofulvus Lodge & Pegler, *Mycological Research* 94: 446. 1990.

Holotype: Puerto Rico, El Verde, 17 Sept. 1985, D.J. Lodge PR-46 (K no. M-872).

Note: This is perhaps a *Camarophyllopsis*.

Hygrophorus undulatus Velen., *Novitates Mycologicae Novissimae:* 13. 1947.

Type: Czech Republic, near Stránčice, Aug. 1941, J. Velenovský (PRM).

Hygrophorus ventricosus Berk. & Broome, Annals and magazine of natural history. Fifth series 3: 207. 1879.

Holotype: UK, Coed Coch (K).

= Perhaps *Hygrocybe virginea* (Wulfen: Fr.) P.D. Orton & Watling (Dennis et al. 1960) or *Hygrocybe pratensis* var. *pallida* (Cooke) Arnolds (Henrici 1996).

Hygrophorus violeipes M. Lange, Meddelelser om Grønland 147, 11: 18. 1955.

Holotype: Greenland, Ivittuut, 17 Sept. 1946, M. Lange ML 571 (C).

= *Hygrocybe lilacina* (Laest. ex P. Karst.) M.M. Moser (Lange 1957).

Hygrophorus virescens Hesler & A.H. Smith, North American Species of *Hygrophorus*: 192. 1963.

Holotype: USA, California, near Trinidad, 14 Dec. 1956, A.H. Smith 56649 (MICH).

Camarophyllus virgineus var. *curtipes* Raitelh., Metrodiana 14: 38 (description in German p. 27). 1985.

Holotype: Germany, Baden-Württemberg, Stuttgart, Höhenparks Killesberg, 11 Oct. 1986, J. Raitelhuber 36-86 (herb. J. Raitelhuber).

Hygrophorus virgineus forma *fuscatus* Britzelm. (as *H. v. forma* “*fuscata*”), Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 449 no. 71), based on material from Germany, Bayern, near Augsburg.

Hygrophorus virgineus forma *ochroleucus* Britzelm. (as *H. v. forma* “*ochroleuca*”), Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 452 no. 87), based on material from Germany, Bayern, near Augsburg.

Note: Britzelmayer refers this forma to Price. This must be Price (1864), plate IV fig. 41: *H. virgineus* (not named as variety or forma), which here is depicted slightly ochraceous (P. Roberts pers. comm.).

Hygrophorus virgineus var. *purpurascens* Killerm., Denkschriften der Bayerische Botanischen Gesellschaft in Regensburg XIX Bd., Neue folge XIII Bd.: 62. 1933.

Type: Germany, Bayern, Tölz Blomberg, Sept. 1917, S. Killermann, herb. not indicated.

Hygrophorus virgineus var. *roseipes* Masee, in Cooke: Illustrations of British Fungi plate 893 (895) 1887 (description in Handbook of British Fungi: 295. 1889).

Holotype: UK, England, near Carlisle, Oct. 1887, probably not preserved.

≡ *Cuphophyllus virgineus* forma *rosiepes* (Masee) Bon 1989b: 73.

Note: Not a true taxon, as the distinctive feature is the result of an infection. Bon (1989b) erroneously quoted the basionym as *Hygrophorus virgineus* forma *roseipes* Cooke, which is why his action also was a change of status (stat. nov.).

Hygrophorus virgineus forma umbrino-marginatus Britzelm. (as *H. v. forma "umbrino-marginata"*), Botanische Centralblatt 54, no. 4 (17): 98 (p. 15 in separate print). 1893.

Type: Not designated. Protologue, with illustration (plate 449 no. 70), based on material from Germany, Bayern, near Augsburg.

Hygrophorus viridis G. Stev. see *Hygrocybe stevensoniae* p. 64.

Hygrophorus westii Murrill, Lloydia 5: 139. 1942.

Holotype: USA, Florida, Gainesville, Hogtown Creek, 11 Jan. 1940, E. West F-19307 (FLAS). Studied by Hesler & Smith (1963).

Names now considered belonging to taxa outside Hygrophoreae

Camarophyllus bellus (Pers.: Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 231. 1879.

Basionym: *Agaricus bellus* Pers., Synopsis Methodica Fungorum 2: 452. 1801. (sanctioned in Systema mycologicum 1: 107, 1821).

Type: Not designated. Protologue based on material from Germany, Hercynia.

≡ *Laccaria bella* (Pers.: Fr.) Cooke 1884: 70, *Clitocybe bella* (Pers.: Fr.) P. Kumm. 1871: 123.

= *Tricholomopsis decora* (Fr.: Fr.) Singer.

Note: Non *Tricholomopsis bella* A.H. Smith.

Camarophyllus bicolor (P. Karst.) ex P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 226. 1879 (nomen novum, Art. 58.1).

Replaced synonym: *Hygrophorus bicolor* P. Karst. Meddelanden af Societas pro fauna et flora fennica 2: 178. 1878, illegitimate name.

Type: Not designated. Protologue based on material from Finland, Syrjöaas.

≡ *Hygrophorus pratensis* var. *β silvaticus* P. Karst. 1868: 344, *Hygrophorus karstenii* Sacc. 1887: 401 (nomen novum).

= *Hygrophorus melizeus* (Fr.: Fr.) Fr. (Arnolds 1986c).

Note: Non *Hygrophorus bicolor* Berk. & Broome 1871a, nec *Hygrophorus bicolor* S. Ito & S. Imai 1939 illegitimate name.

Camarophyllus burnhamii (Peck) Murrill, North American Flora 9: 389. 1916.

Basionym: *Hygrophorus burnhamii* Peck (as *H. "burnhami"*), New York State Museum Bulletin 116: 56. 1907.

Holotype: USA, New York State, Washington Co., West Fort Ann, October, S.H. Burnham (NYS).

= *Hygrophorus camarophyllus* (Fr.) Dumée, Grandjean & Maire (Hesler & Smith 1963), *Camarophyllus caprinus* (Fr.) P. Karst. (Hesler & Smith 1963).

Note: This is a *Hygrophorus* s.s.

Camarophyllus caprinus (Scop.) P. Kumm., Der Führer in die Pilzkunde: 118. 1871.

Basionym: *Agaricus caprinus* Scop. Flora Carneolica 2 (ed. 2): 438. 1772.

Type: Not designated. Protologue based on material from Slovenia, Kranj.

≡ *Hygrophorus caprinus* (Scop.) Fr. 1836-1838: 326.

= *Hygrophorus camarophyllus* (Fr.) Dumée, Grandjean & Maire.

Hygrophorus carneogriseus Malençon, in Malençon & Bertault: Acta phytotaxonomica Barcinonensia 8: 52. 1971.

Holotype: Marocco/Spain, G. Malençon 6146 (MPU).

≡ *Camarophyllus carneogriseus* (Malençon) Honrubia & Llimona 1979: 138 invalidly published (no basionym, Art. 33.3).

Note: This is a *Hygrophorus* s.s.

Camarophyllus connatus P. Karst., Meddelanden af Societas pro fauna et flora Fennica 18: 61. 1891.

Type: Finland, Mustiala, between Salois and Kynärjärvi, Sept. 1890, P. Karsten, not located in H, but Karsten 4244 could be selected as epitype (S. Huh-tinen pers. comm.).

Note: Perhaps a *Clitocybe* (Dennis et al. 1960, Henrici 1996).

Camarophyllus ectypus (Fr.: Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 230. 1879.

Basionym: *Agaricus ectypus* Fr.: Fr. Systema mycologicum: 108. 1821.

Type: Not designated. Protologue based on material from Sweden, Småland, Femsjö.

≡ *Armillariella ectypa* (Fr.: Fr.) Singer 1943b: 20, *Armillaria ectypa* (Fr.: Fr.) Lamoure 1965: 4562.

Camarophyllus grossulus (Pers.) Clemençon, Beihefte zur Zeitschrift für Mykologie 4: 55. 1982.

Basionym: *Agaricus grossulus* Pers., Mycologia Europaea 3: 110. 1828.

Type: Not designated. Protologue, with illustration (plate XXVI fig. 7 “2”), based on material from France, near Paris.

≡ *Omphalina grossula* (Pers.) Singer 1961a: 29, *Gerronema grossula* (Pers.) Singer 1973: 14, *Cuphophyllus grossulus* (Pers.) Bon 1984b: 12, *Chrysomphalina grossula* (Pers.) L.L. Norvell, Redhead & Ammirati 1994: 380.

= *Hygrophorus wynniae* Berk. & Broome, *Omphalia wynniae* (Berk. & Broome) Quéf., *Omphalina wynniae* (Berk. & Broome) S. Ito.

Note: This is an *Omphalina* s.l.

Cuphophyllus grossulus var. *belleri* Bon, Documents mycologiques 19 (76): 73. 1989.

Holotype: France, Pyrenaei Montes, Oct. 1968, Beller no. B-834 (herb. M. Bon).

Note: This is an *Omphalina* s.l.

Camarophyllus grumatus (Scop.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 232. 1879.

Basionym: *Agaricus grumatus* Scop: Flora Carneolica 2 (ed. 2): 443. 1772.

Type: Not designated. Protologue based on material from Slovenia, Kranj.

≡ *Clitocybe grumata* (Scop.) Sacc. 1887: 194.

Camarophyllus grumatus var. *albidus* (P. Karst.) P. Karst., Meddelanden af Societas pro fauna et flora fennica 9: 42. 1882.

Basionym: *Camarophyllus grumatus* * *C. albidus* P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 232. 1879.

Type: Not designated. Protologue based on material from Finland, Mustiala.

≡ *Clitocybe grumata* * *C. albida* (P. Karst) Sacc. 1887: 194.

Camarophyllus incomtus (Fr.: Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 230. 1879.

Basionym: *Agaricus incomtus* Fr. Observationes Mycologicae præcipue ad illustrandam floram Suecicam 2: 212. 1818 (sanctioned in Systema mycologicum I : 171. 1821).

Type: Not designated. Protologue based on material from Sweden, Småland.

Camarophyllus laccatus (Scop.: Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 231. 1879.

Basionym: *Agaricus laccatus* Scop., Flora Carneolica 2 (ed. 2): 444. 1772 (sanctioned in Systema mycologicum: 106. 1821).

Holotype: Not designated. Protologue based on material from Slovenia, Kranj. Neotype: Sweden, Småland, Femsjö, 17 Aug. 1964, R. Singer C-4083 (BAFC), "topotype et lectotype" (Singer 1967).

≡ *Laccaria laccata* (Scop.: Fr.) Cooke 1884: 70.

Camarophyllus laccatus var. *perpusillus* P. Karst. Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 231. 1879.

Type: Not designated. Protologue based on material from Finland.

Note: Karsten (1879) refer this taxon to Rabenhorst. In Rabenhorst (1844) there is an *Agaricus perpusillus* with reference to Fries (1821) (= *Pleurotus perpusillus* (Fr.: Fr.) Gill.) and in the pre-1879 issues by Rabenhorst (1869-1882), there is no taxa with the epithet *perpusillus* (L. DeCecare pers. comm.), why the name *Camarophyllus laccatus* var. *perpusillus* must be ascribed to Karsten.

Camarophyllus nemoreus (Pers.: Fr.) P. Kumm., Der Führer in die Pilzkunde: 118. 1871.

Basionym: *Agaricus nemoreus* Pers. Synopsis methodica fungorum: 305. 1801 (sanctioned in Systema mycologicum 1: 99. 1821).

Type: Not designated. Protologue based on material from Europe.

≡ *Hygrophorus nemoreus* (Pers.: Fr.) Fr. 1836-1838: 326, *Hygrophorus pratensis* var. *nemoreus* (Pers.: Fr.) Quél. 1883: 396.

Camarophyllus nigridius (Peck) Murrill, North American Flora 9: 389. 1916.

Basionym: *Hygrophorus nigridius* Peck, Bulletin of the Torrey Botanical Club 22: 211. 1895.

Syntypes: Canada, Prince Edward Island, Oct. and Nov., J. MacSwain (NYS).

Note: This is a *Hygrophorus* s.s. (Hesler & Smith 1963).

Camarophyllus pachyphyllus (Fr.: Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 230. 1879.

Basionym: *Agaricus pachyphyllus* Fr. (as *A. "pachophyllus"*), Observationes mycologicae praecipue ad illustrandum floram Suecicam 1: 76. 1815 (sanctioned in Index Alphabeticus: 34. 1832).

Type: Not designated. Protologue based on material from Sweden.

≡ *Pseudomphalina pachyphylla* (Fr.: Fr.) Knudsen 1992: 76, *Pseudomphalina pachyphylla* (Fr.: Fr.) Kyup. 1995a superfluous combination.

= *Collybia incomis* P. Karst. (Kuyper 1995b).

Humidicutis rosella (Speg.) Singer, Beihefte zur Nova Hedwigia 29: 23. 1969.

Basionym: *Tricholoma rosellum* Speg., Boletín de academia de ciencias de la república Argentina 28: 279. 1925.

Holotype: Argentina, La Plata, 16 Apr. 1919, C. Spegazzini (LPS no. 16749).

Notes: Non *Hygrocybe rosella* E. Horak. I have studied Spegazzini's type, and I do not agree with Singer (1969) that this taxon belongs to Hygrophoraceae.

Camarophyllus sandicinus (Fr.) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 232. 1879.

Basionym: *Agaricus demissus* β . *sandicinus* Fr.: Fr. Systema mycologicum I: 157. 1821.

Type: Not designated. Protologue based on material from Sweden.

≡ *Agaricus sandicinus* (Fr.: Fr.) Fr. 1836-1838: 79, *Clitocybe sandicina* (Fr.) Sacc. 1887: 194.

= *Omphalina demissa* (Fr.: Fr.) Quél. (Kuyper 1995a).

Camarophyllus subrufescens (Peck) Murrill, North American Flora 9: 387. 1916.

Basionym: *Hygrophorus subrufescens* Peck, New York State Museum Bulletin 67: 23. 1903.

Holotype: USA, New York State, Suffolk Co., Port Jefferson, Aug., C.H. Peck (NYS). Studied by Hesler & Smith (1963).

Note: This is a *Hygrophorus* s.s. (Hesler & Smith 1963).

Camarophyllus translucens Murrill, Mycologia 35: 424. 1943.

Holotype: USA, Florida, Planera Hammock NW of Gainesville, 13 Aug. 1938, W.A. Murrill F-18045 (FLAS). Studied by Hesler & Smith (1963).

≡ *Hygrophorus translucens* (Murrill) Murrill 1943: 433, *Hydropus translucens* (Murrill) Singer 1946: 118.

Note: Spores amyloid, why this species is not a *Hygrocybe* or a *Hygrophorus* s.s. (Hesler & Smith 1963).

Hygrophorus turundus var. *sphaerosporus* Rea, British Basidiomycetae: 305. 1922.

Type: Not designated. Protologue based on material from UK. Unpublished painting by Rea in K (Henrici 1996).

Note: Spores warted and protologue probably refer to a *Laccaria* (Henrici 1996).

Camarophyllus velutinus (E. Borshchow) P. Karst., Rysslands, Finlands och den skandinaviska halföns hattsvampar. Förra delen: Skifsvampar (Bidrag till Kännedom af Finlands Natur och Folk 32): 224. 1879.

Basionym: *Hygrophorus velutinus* E. Borshchow, Fungi Ingrici: 58 (plate 1 fig. 2). 1857.

Type: Not designated. Protologue, with illustration, based on material from Russia, Ingermanland, River Ligovka, Ingrici, mid-Aug.

= Probably *Hygrophoropsis aurantiaca* (Wulfen: Fr.) Maire (Kovalenko 1987, 1989).

Note: Authors name also transcribed Borszczow.

Invalidly published, illegitimate or superfluous combinations

Hygrocybe acutoconica forma *japonica* Hongo, invalidly published, Journal of Japanese Botany 31: 145, 1956.

Basionym: *Hygrophorus acutoconicus* forma *japonicus* Hongo invalidly published, Journal of Japanese Botany 31: 145, 1956.

Type: Japan, Musashi, Hachioji-city, Shimonagafusa, 18 Sept. 1955, T. Hongo (herb. Biological Institute Shiga University).

Note: The names *Hygrophorus acutoconicus* forma *japonicus* and *Hygrocybe acutoconica* forma *japonica* were published simultaneously (Art. 34.2, alternative names).

Hygrocybe acutopunicea R. Haller Aar. & F.H. Møller, illegitimate name, Schweizerische Zeitschrift für Pilzkunde 34: 66. 1956 (nomen novum).

Replaced synonym: *Hygrocybe acuta* F.H. Møller, Fungi of the Færoes: 143, 1945.

Material designated as type: see *Hygrocybe acuta* p. 9.

≡ *Godfrinia acutopunicea* (R. Haller Aar. & F.H. Møller) ex Herink 1958 invalidly published (no basionym, Art. 33.3).

Note: Superfluous renaming of *Hygrocybe acuta* F.H. Møller (Art. 52.1), as *Hygrophorus acutus* A.H. Smith & Hesler (1942) was never transferred to *Hygrocybe*, nor was *Agaricus puniceus* β *acutus* Lasch (1828).

Hygrophorus alboviolaceus Arnolds, nomen nudum, Taxonomie en Florestiek van *Hygrophorus* subgenera *Hygrotrama*, *Cuphophyllus* en *Hygrocybe* in Netherland: 94. 1974.

= *Hygrocybe lacmus* (Schumach.) P.D. Orton & Watling (Arnolds 1986d).

Note: Informally described without Latin diagnosis as “ad interim” (Art. 32.1).

Camarophyllus alpinus M.M. Moser, nomen nudum, Die Röhrlinge, Blätter- und Bauchpilze (Agaricales und Gastromycetales), zweite auflage: 41. 1955.

Note: No diagnosis etc. (Art. 32.1).

Hygrocybe alutacea Singer, nomen nudum, in Bunt: ANARE Scientific reports, Series B (II) Botany. Publication no. 78: 8. 1965.

Voucher material: Australia, Macquarie Island, Gadget Gully, 30 Mar. 1951, R. Singer (LIL).

Note: Informally published without Latin diagnosis as “ad. int.” (Art. 32.1).

Hygrocybe amoena forma pratensis R. Haller Aar. & Métrod nomen nudum, Schweizerische Zeitschrift für Pilzkunde 33: 35. 1955.

Type: Not designated. Protologue based on material from Switzerland, Staffelegg/Aargau.

Note: No Latin diagnosis (Art. 36.1).

Hygrocybe amoena forma silvatica R. Haller Aar. & Métrod, nomen nudum, Schweizerische Zeitschrift für Pilzkunde 33: 35. 1955.

Type: Not designated, material mentioned i protologue from Switzerland, Stafefelegg and Ferner bei Langenbruck; and France, Doubs, Deluz, Bois de Montoille, Sept. 1946; herbarium not indicated.

Note: No Latin diagnosis (Art. 36.1).

Hygrocybe buntii Singer, nomen nudum, in Bunt: ANARE Scientific reports, Series B (II) Botany. Publication no. 78: 8. 1965.

Voucher material: Australia, Macquarie Island, West Point, 31 Mar. 1951, R. Singer (LIL).

Note: Informally published without diagnosis as “ad. int.” (Art. 32.1).

Hygrophorus caespitosus Velen., illegitimate name, České Houby: 102. 1920.

Material designated as type: Czech Republic, above Řevnice, Oct. 1915, Kavi-na, herbarium not indicated, no material in PRC or PRM (J. Holec pers. comm.).

Note: A later homonym to *Hygrophorus caespitosus* (Murrill) Murrill 1914 (Art. 53.1).

Hygrocybe calcarum Gröger, nomen nudum, Mykologisches Mitteilungsblatt 26: 37. 1983.

= *Hygrocybe calciphila* Arnolds (Arnolds 1986b).

Note: Informally published without Latin diagnosis as “ined.” (Art. 33.3).

Hygrocybe cantharelliformis K. Syme, nomen nudum, Survey of the Larger Fungi of the Two Peoples Bay Nature Reserve: 12. 1992.

Voucher material: Australia, Western Australia, Denmark, Two Peoples Bay Nature Reserve, 3 July 1991, K. Syme KS0224/91, herb. not indicated.

Notes: Without diagnosis etc. (Art. 33.3) (May & Wood 1997). Non *Hygrophorus cantharelliformis* Britzelm. 1893.

Hygrophorus chlorophanus var. *umbonatus* Peck, nomen nudum.

Note: Not published and only mentioned in Index to C.H. Peck’s types.

Hygrophorus cinereus Velen. illegitimate name, České Houby: 101. 1920.

Material designated as type: Czech Republic, above Chuchle near Pragae, Oct., herb. not indicated.

Note: A later homonym to *Hygrophorus cinereus* Berk. & Broome (1871a) (Art. 53.1) = *Dermoloma scotodes* (Berk. & Broome) Pegler (Pegler 1986).

Hygrocybe conica var. *tetraspora* Kreisel, nomen nudum, Feddes Repertorium. Beiheft 137: 147. 1957.

Material designated as type: Germany, Mecklenburg, Fischland, 10 Sept. 1955, H. Kreisel, herb. not indicated

Note: Without Latin diagnosis (Art. 36.1).

Hygrocybe constans J.E. Lange, illegitimate name, see *Hygrocybe langei* p. 41.

Hygrocybe crocea forma *pseudocrocea* Bon, nomen nudum, Les Hygrophores: 42, 1990.

Note: Informally published without diagnosis as “ad. int.” (Art. 32.1).

Camarophyllus ferrugineoalbus (Singer) Singer, superfluous name, Beihefte zur Sydowia 7: 3. 1973, see *Clitocybe bicolor* p. 80.

Hygrophorus hologrammatus (E.H.L. Krause) E.H.L. Krause invalidly published, Mecklenburgs Basidiomyceten das sind die Poggenstühle und verwandten Schwämme: 98. 1934.

Basionym: *Amanita hologrammatus* E.H.L. Krause, invalidly published, Basidiomycetes Rostochiensium, supplementum quintum: 162. 1933.

Type: Not designated. Protologue based on material from Germany, Mecklenburg, Rostock, Barnstorfer Anlagen.

Note: The epithet is not definitely associated with the genus name in the protologue (Art. 33.1).

Hygrocybe hololeucooides Singer, nomen nudum, Fieldiana, Botany N.S. 21: 5. 1989.

Voucher material: Brazil, Amazonas, Manaus-Caracarai road, May 1977, R. Singer B-11014 (INPA).

Note: Provisional name published without diagnosis (Art. 32.1).

Hygrocybe imazekii Hongo, invalidly published, Journal of Japanese Botany 30: 215. 1955.

Basionym: *Hygrophorus imazekii* Hongo, Journal of Japanese Botany 30: 215. 1955.

Type: Japan, Yokoyama-mura, Musashi, 13 Oct. 1954, T. Hongo (herb. Biological Institute, Shiga University).

Note: *Hygrophorus imazekii* and *Hygrocybe imazekii* published simultaneously (Art. 34.2, alternative names).

Hygrophorus incommodus (E.H.L. Krause) E.H.L. Krause, invalidly published, Mecklenburgs Basidiomyceten das sind die Poggenstühle und verwandten Schwämme: 97. 1934.

Basionym: *Amanita incommoda* E.H.L. Krause, invalidly published, Basidiomycetem Rostochiensium, supplementum alterum: 95. 1930.

Type: Not designated. Protologue based on material from Germany, Mecklenburg, Rostock, Barnstorfer Anlagen und Stadtweide.

= *Hygrocybe russocoriacea* (Berk. & T.K. Mill.) P.D. Orton & Watling.

Note: The epithet is not definitely associated with the genus name in the protologue (Art. 33.1).

Hygrocybe irrigata forma alba Bon & Réaudin, nomen nudum, Documents mycologiques 30 (119): 5. 2000.

Note: Informally published without diagnosis as “aff. *irrigata* (*forma alba* ad int.)” (Art. 32.1).

Hygrophorus juniperinus Velen., nomen nudum, Novitates Mycologicae: 22. 1939.

Note: No diagnosis (Art. 32.1).

Hygrophorus macrosporus C.J. Bird & Grund, illegitimate name, Nova Scotian species of *Hygrophorus*. - Proceedings of the Nova Scotian institute of science 29: 124. 1979.

Material designated as type: Canada, Nova Scotia, Kings Co., Kentville, Agriculture Experimental Station, 18 Sept. 1967 (ACAD 12099).

Note: A later homonym to *Hygrophorus macrosporus* S. Ito & S. Imai 1959 (Art. 53.1).

Hygrophorus miniatoides Peck, nomen nudum.

Note: Not published and no specimen, but listed in Index to C.H. Peck's types.

Hygrophorus mycenoides Velen., illegitimate name, *Novitates Mycologicae Novissimae*: 14. 1947.

Material designated as type: Czech Republic, Oct.. 1941, J. Velenovský (PRM).

Note: A later homonym to *Hygrophorus mycenoides* A.H. Smith & Hesler (1942) (Art. 53.1).

Camarophyllus nebularis Clemençon, nomen nudum, *Beiheft zur Zeitschrift für Mykologie* 4: 55. 1982.

= *Hygrocybe griseopallida* Arnolds 1985, *Hemimycena mairei* (M.E. Gilbert) Singer.

Notes: *Hygrocybe cinerea* (Fr.) P.D. Orton & Watling ss. Arnolds (1974b). No Latin diagnosis and no type indicated (Art. 36.1, 37.1).

Hygrocybe olivaceonigra forma luteomarginata Bon & B. Lefebvre, nomen nudum, *Documents mycologique* 30 (119): 22. 2000

Note. Informally published without diagnosis as “ad. int.” (Art. 32.1).

Hygrocybe ortonii Bon superfluous name, see *Hygrophorus ortonii* p. 96.

Hygrophorus pallidus Velen., illegitimate name, *Novitates Mycologicae Novissimae*: 14. 1947.

Material designated as type: Czech Republic, Mnichovice, Nov. 1940, J. Velenovský, herb. not indicated, no material in PRC or PRM (J. Holec pers. comm.).

Note: A later homonym to *Hygrophorus pallidus* Peck (1902) (Art. 53.1).

Hygrocybe persistens forma tetraspora Singer, nomen nudum, *Revue de Mycologie* 5: 8. 1940.

Note: Information very limited and no Latin diagnosis (Art. 36.1).

Hygrophorus pseudisabellinus Henn., illegitimate name, in Voeltzkow: *Reise in Ostafrika*, band III: plate 2 fig. 14. 1908.

Note: *Hygrophorus pseudisabellinus* is the name mentioned on caption to plate 2 fig. 14 to which the diagnosis of *Hygrophorus isabellinus* Henn. (1908) refer to (Art. 52.1).

Hygrocybe pseudococcinea Hongo, invalidly published and illegitimate name, *Journal of Japanese Botany* 30: 73. 1955.

Basionym: *Hygrophorus pseudococcineus* Hongo invalidly published, *Journal of Japanese Botany* 30: 73. 1955.

Type: Japan, Ômi, Ôtsu, Zeze-Kamibeppo-chô, 5 June 1954, T. Hongo (herb. Biological Institute, Shiga University).

Note: The names *Hygrophorus pseudococcineus* and *Hygrocybe pseudococcinea* were published simultaneously (Art. 34.2, alternative names). The former combination is also a later homonym (Art. 53.1) to *Hygrophorus pseudococcineus* Velen. 1920.

Hygrocybe pseudocuspidata Kühner, nomen nudum, Bulletin de la Société Mycologique de France 93: 105. 1977.

Material designated as type: France, Vanoise, near Pralognan, 21 Aug. 1969, R. Kühner 69-198, herb. not indicated.

= *Hygrocybe persistens* var. *cuspidata* (Peck) Arnolds (Arnolds 1986d).

Note: Without Latin diagnosis (Art. 36.1).

Hygrophorus pseudomarchii Largent, nomen nudum, The Agaricales (gilled fungi) of California. 5. Hygrophoraceae: 81. 1985.

Notes: *Hygrophorus marchii* Bres. ss. Hesler & Smith (1963). No type designated and no Latin diagnosis (Art. 36.1, 37.1).

Hygrophorus puniceus forma minor M.P. Christ., nomen nudum, Studies in the larger fungi of Iceland: 200. 1941.

Material designated as type: Iceland, four collections quoted from 1935 and 1937 (C, only a painting).

Note: No Latin diagnosis (Art. 36.1).

Hygrophorus pusillus Velen., illegitimate name, České Houby: 109. 1920.

Material designated as type: Czech Republic, near Stránčice, July 1919 (PRC).

= *Hygrocybe vitellina* (Fr.) P. Karst. (Velenovský 1939, Singer & Kuthan 1976).

Note: A later homonym to *Hygrophorus pusillus* Peck (1902) (Art. 53.1).

Hygrocybe rickenii Maire, illegitimate name, Bulletin de la Société Mycologique de France 46: 220. 1930 (nomen novum).

Replaced synonym: *Hygrocybe constans* J.E. Lange 1923, illegitimate name.

Material designated as type: see *Hygrocybe langei* p. 41.

Note: Maire's (1930) renaming is antedated by Kühner's (1927) and is therefore superfluous (Art. 52.1).

Hygrophorus rubescens Velen., illegitimate name, České Houby: 102. 1920.

Material designated as type: Czech Republic, near Pyšely, Sept. 1918, Vrána, herb. not indicated.

Notes: A later homonym to *Hygrophorus rubescens* Beck (1889) (Art. 53.1).

Hygrocybe spadicea forma bispora Bon, nomen nudum, Documents mycologiques 3 (9): 3. 1973.

Note: Informally published without diagnosis as “ad. int.” (Art. 32.1).

Hygrocybe stagnina Hongo, invalidly published, Journal of Japanese Botany 32: 208. 1957.

Basionym: *Hygrophorus stagninus* Hongo invalidly published, Journal of Japanese Botany 32: 208. 1957.

Type: Japan, Ōmi, Ōtsu-city, Ishiyama-dera, 5 Nov. 1955, T. Hongo (herb. T. Hongo).

Note: The names *Hygrophorus stagninus* and *Hygrocybe stagnina* were published simultaneously (Art. 34.2, alternative names).

Hygrocybe subglobispora forma suboblongispora Bon, nomen nudum, Documents mycologiques 30 (119): 23.

A “herbarium name” mentioned by Bon & Lefebvre (2000).

Hygrocybe subvitellina Bon, illegitimate name, see *Hygrocybe vitellinoidea* p. 72.

Hygrocybe tatrensis Nespiak, nomen nudum, Fragmenta Floristica et Geobotanica 6: 716. 1960.

Type: Not designated. Protologue based on material from Poland, Tatra.

= *Hygrocybe conica* (Schaeff.: Fr.) P. Kumm. s.l. (Boertmann 1995).

Note: Informally published without diagnosis as “ad. int.” (Art. 32.1).

Hygrocybe tristis (Pers.) Fayod (as *H. “trista”*), superfluous name, Annales des sciences naturelles, septième série. Botanique 9: 309. 1889.

Basionym: *Agaricus tristis* Pers. superfluous name, Observationes mycologicae 2: 49. 1799.

Type: Not designated. Protologue based on material from Europe.

≡ *Hygrophorus tristis* (Pers.) Bres. 1928: Plate 349, superfluous name, *Hygrocybe*

tristis (Pers.) F.H. Møller 1945: 140 superfluous name, *Godfrinia tristis* (Pers.)

Herink 1958: 66 invalidly published (no basionym, Art. 33.3) and superfluous

name, *Hygrocybe conica* var. *tristis* (Pers.) Heinem. 1963: 432 superfluous name,

Hygrocybe pseudoconica var. *tristis* (Pers.) Bon 1989a: 55 superfluous name.

Note: See discussion in Arnolds (1986d).

Hygrocybe turunda var. *macrospora* Hongo, invalidly published, Journal of Japanese Botany 31: 144. 1956.

Basionym: *Hygrophorus turundus* var. *macrosporus* Hongo invalidly published, Journal of Japanese Botany 31: 144. 1956.

Type: Japan, Ômi, Ishiyama-Hiratsu-cho, 11 June 1955, T. Hongo (herb. Biological Institute, Shiga University).

≡ *Hygrocybe turunda* forma *macrospora* (Hongo) Hongo 1982: 91 invalidly published (Art. 32.1).

Note: The names *Hygrocybe turunda* var. *macrospora* and *Hygrophorus turundus* var. *macrosporus* were published simultaneously (Art. 34.2, alternative names).

Hygrocybe unguinosa var. *alba* Bon, nomen nudum Documents mycologiques 30 (119): 6. 2000.

A “herbarium name” mentioned by Bon & Réaudin (2000).

Hygrophorus virgatus Berk. & Broome, nomen nudum.

Note: Unpublished “herbarium name” for *Hygrocybe conica* var. *peradenyca* (Sacc.) Pegler 1986: 57 (Pegler 1986).

New combinations here proposed

- Hygrocybe adonis* (Singer) Boertm.
Hygrocybe antillana (Pegler) Boertm.
Hygrocybe cana (E. Horak). Boertm.
Hygrocybe fumosogrisea (E. Horak) Boertm.
Hygrocybe impura (E. Horak) Boertm.
Hygrocybe innata (E. Horak) Boertm.
Hygrocybe lilacinoides (E. Horak) Boertm.
Hygrocybe lilacipes (E. Horak) Boertm.
Hygrocybe luteoglutinosa (E. Horak) Boertm.
Hygrocybe ostrina (E. Horak) Boertm.
Hygrocybe patinaecolor (E. Horak) Boertm.
Hygrocybe peleae (Desjardin & Hemmes) Boertm.
Hygrocybe poilena (Desjardin & Hemmes) Boertm.
Hygrocybe squarrosa (E. Horak) Boertm.
Hygrocybe sulphurea (G. Stev.) Boertm.
Hygrocybe versicolor (E. Horak) Boertm.
Hygrocybe viscaurantia (E. Horak) Boertm.
Camarophylloopsis albipes (Singer) Boertm.
Camarophylloopsis araguense (Singer) Boertm.
Camarophylloopsis deceptiva (A.H. Smith & Hesler) Boertm.
Camarophylloopsis leucopus (Singer) Boertm.
Camarophylloopsis microspora (A.H. Smith & Hesler) Boertm.
Camarophylloopsis paupertina (A.H. Smith & Hesler) Boertm.
Camarophylloopsis peckiana (Howe) Boertm.
Camarophylloopsis pedicellata (Natarajan & Manjula) Boertm.
Camarophylloopsis roseola (G. Stev.) Boertm.
Camarophylloopsis rugulosoides (Hesler & A.H. Smith) Boertm.

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