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"Zur Kenntnis der Scydmaeniden der Welt": The contributions of Herbert Franz to scydmaenid taxonomy 1952-1997 (Coleoptera: Scydmaenidae)

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Abstract

Herbert Franz is, by far, the most active worker on the beetle family Scydmaenidae (Coleoptera: Staphyliniformia). From 1952 to 1997 he published 144 articles on scydmaenid beetles, described more than 3,000 of the 4,500 known species, and proposed 92 new genera or subgenera from nearly all parts of the globe. His contributions on this family are arranged and summarized by geographic region. A complete bibliography of his publications on Scydmaenidae and a list of all the scydmaenid genera and subgenera he proposed are included.

Key words: Coleoptera, Scydmaenidae, Franz, taxonomy.

Introduction

The contributions Herbert Franz has made to the taxonomy of the Scydmaenidae (Coleoptera: Staphylinioidea) are substantial in every sense. In his 144 papers on scydmaenid beetles he described two thirds of the known species and over half of the genera and subgenera of the family. He has published extensively on them for nearly every region on the globe. The task of summarizing 45 years of very productive work into a short paper is daunting. Stacked over half a meter in height on my desk are reprints or photocopies of all his articles on this previously poorly studied group. I will attempt to summarize, by each major geographic region, the 4,400+ pages that compose his mountainous work on scydmaenid beetles.

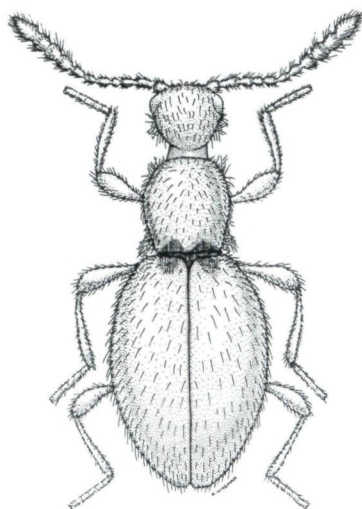


Fig. 1: *Euconnus laeivollis* (CASEY)

The family Scydmaenidae is composed of small (0.60 - 5.00 mm long) staphylinoid beetles that differ from other staphylinoids by having clavate femora, six visible abdominal sternites, dorsally attached parameres on the male genitalia, and a dense covering of hairs. They occur on every continent, except Antarctica, and every major island and are most numerous in both numbers of individuals and numbers of species in tropical regions. Most species of Scydmaenidae are frequently encountered in leaf litter, under stones, or other secluded habitats in old growth forests, mountain tops, or moist river drainages where they are specialist predators both as adults and as larvae on armored mites (Oribatodea, Acari) (SCHMID 1988). Other species of

Scydmaenidae are associated with either ants or termites (FRANZ 1980a). Fossil scydmaenids are known from the Cretaceous (O'KEEFE & al. 1997) and are widely represented in both Baltic and Dominican amber deposits (FRANZ 1976b, 1983a).

Of the nearly 250 people who have published on the family Scydmaenidae, less than 20 have made significant contributions. The pioneering contributions in the early 19th Century were made by MÜLLER & KUNZE (1822), SCHAUM (1841, 1844), and LECONTE (1852) and they set the groundwork for scydmaenid workers of the later 19th Century - Croissandeau, Casey, Sharp, Schaufuss, Motschulsky, and Reitter. During the later 19th and early 20th Centuries, Edmund Reitter published nearly 90 articles that included descriptions of scydmaenids, and until Herbert Franz started publishing, had made the most significant contributions. During the early 20th Century, significant contributions were made by Lhoste, Machulka, Normand, and Lea.

Of all these workers, Herbert Franz has, without a doubt, made the most significant contributions to scydmaenid taxonomy. His productivity is truly staggering, having published 144 articles on scydmaenids from 1952 to 1997 (see Appendix 1 for bibliography). He described over 3,000 new species from nearly every major geographic region and proposed 92 new genera or subgenera (Appendix 2). This is even more impressive when one considers that he did not start publishing on Scydmaenidae until he was in his mid forties, increased publishing when he was in his fifties and sixties, and continues to be productive even into his nineties (Figs. 2-3). He has done more for scydmaenid taxonomy than any other individual.

Franz made important contributions by publishing large monographs for entire regions such as Australia (FRANZ 1975c), South America (FRANZ 1967b, 1980d), Madagascar (FRANZ 1986d), and Sri Lanka (FRANZ 1982c) that previously had received little, if any, attention. In these monographs he reviewed most of the previously described species, if any, and described all new species available to him. Some of his most valuable work has been in redescribing species that were inadequately or poorly described and placing them into currently recognized genera. This is important because most scydmaenids described in the middle to late 19th Century were originally placed in *Scydmaenus* LATREILLE and the original descriptions are often without enough detail for proper identification. Some of the more important earlier material he has redescribed includes that of SCHAUFUSS (1867) (FRANZ 1967b, 1977c), SCHAUFUSS (1884) (FRANZ 1971d), SHARP (1887) (FRANZ 1995b), REITTER & CROISSANDEAU (1890) (FRANZ 1993e), as well as species proposed by Broun, Lea, Reitter, Motschulsky, Lhoste, etc.

Early in his career Franz published several valuable revisions for the western Mediterranean fauna of *Euconnus* THOMSON (FRANZ 1957a), *Stenichnus* THOMSON (FRANZ 1960a), *Scydmorephes* REITTER (FRANZ 1961b), the Palearctic species of *Chevolatia* JACQUELIN DU VAL (FRANZ 1970c), the Palearctic species of *Eutheia* STEPHENS and *Veraphis* CASEY (FRANZ 1971e), and the southeast Asian genus *Syndicus* MOTSCHULSKY (FRANZ 1971c). With the exception of his revisions of Sharp's 1887 and Reitter and Croissandeau's 1890 works (FRANZ 1995b, 1993e), his numerous papers add new species for nearly every region. His invaluable work has greatly increased our knowledge of this previously little-known group.

The majority of text for nearly any of Herbert Franz' works on Scydmaenidae are descriptions of new species. In his larger works, Franz often provides keys to species that are treated in the text and also usually includes species previously described for the area covered. The keys are well organized and occasionally refer to characters of the male genitalia. Probably the most useful keys he has made available are to the genera of Euconnini (= Cyrtoscydmini) for the world (FRANZ 1980d) and for the genera of Scydmaenidae of Europe (FRANZ & BESUCHET 1971). Also, in many of his papers he includes keys for the subgenera of either *Euconnus* or *Scydmaenus*. In nearly all but the smallest publications, at the end of the paper he provides a list of species treated, which can be quite useful for making quick tabulations. In his monographs he usually includes brief discussions on biogeography.

Franz published numerous articles on the African, European, South American, and southeast

Asian faunas (Figs. 4 - 5). The only major land mass not extensively covered in his works is North America, although the single publication on the North American fauna (FRANZ 1985b) is extremely important regarding scydmaenid classification. He has even published descriptions of fossil scydmaenids from both Baltic and Dominican amber deposits (FRANZ 1976b, 1983a).

Western and central Europe. Franz began his career on scydmaenid beetles by publishing several extensive monographs on the western Mediterranean species of *Euconnus* (FRANZ 1957a), *Stenichnus* (FRANZ 1960a, 1961a), and *Scydmorephes* (FRANZ 1961b). In all, he described over 50 new species and treated many others previously described (e.g. in his revision of *Scydmorephes* (FRANZ 1961b) he redescribed many of the species treated by REITTER (1881a, 1884)). The only supra-specific taxa proposed by him for this region are *Protoeuthia* FRANZ (FRANZ 1970b) and *Paraeustemmus* FRANZ, a subgenus of *Scydmaenus* (FRANZ 1955). His remaining nine papers (FRANZ 1952, 1958a, 1960b, 1962b, 1966a, 1971b, 1975a, 1978b, 1986f) include descriptions of another 41 new species.

Southeastern Europe and Caucasus. During the early to mid 1980's, Franz published seven articles on the fauna of eastern Europe (FRANZ 1975d, 1979c, 1980c, 1982b, 1983d, 1984a, 1986b) in which he described nearly two dozen new species, mostly from the Caucasus. His 1982 work (FRANZ 1982b) is valuable because in it he redescribed many species proposed by REITTER (1880a, 1881a, 1881c, 1884, 1885, 1888a, 1888b, 1905), CROISSANDEAU (1893, 1894, 1898a, 1898b), and BAUDI DI SELVE (1869), and in his 1975 paper (FRANZ 1975d) he redescribed species proposed by SAULCY (1878) and REITTER (1881a, 1888a, 1890). He described species mostly in *Euconnus* and *Scydmaenus* and also described several species in *Stenichnus*, *Eutheia*, *Scydmorephes*, and *Neuraphes* THOMSON.

Northern Africa. Most of Franz' works on North African scydmaenids were published early in his career in a series of short papers. He described half a dozen species of *Stenichnus* and recorded a species of *Eutheia* from the Canary Islands (FRANZ 1965a, 1968a, 1972b, 1980i), and in one of these papers he even included a description of a larva (FRANZ 1965a). Probably of all his papers on the northern African fauna (Morocco, FRANZ 1964, 1990c; Algeria, FRANZ 1964, 1984g; Niger, FRANZ 1962c; Tunisia, FRANZ 1964, Sudan, FRANZ 1971a; Chad, FRANZ 1958b, 1962c, 1963b, 1966b), the most important is his 1964 work (FRANZ 1964) in which he redescribed species originally described by PEYERIMHOFF (1912, 1917, 1921), CROISSANDEAU (1894), NORMAND (1912), and REITTER (1879, 1881b, 1884, 1887, 1894). In addition, he has descriptions of over 40 new species in his revisions of the western Mediterranean fauna (FRANZ 1957a, 1960a, 1962b). Only a single new subgenus, *Eustemmoides* FRANZ (in *Scydmaenus*), was proposed for this region (FRANZ 1958b). Nearly all species he described of the scydmaenid fauna of northern Africa are placed into either *Euconnus* or *Scydmaenus*.

Central Africa. Franz has published extensively on the central African fauna. He has concentrated most of his efforts on the fauna of the Congo (FRANZ 1957b, 1963b, 1971h, 1980e), in which he added a single subgenus to *Scydmaenus* (*Afroscydmaenus*), four to *Euconnus* (*Napoconnus*, *Paratetramelus*, *Heteroconnus*, and *Ursoconnus*), and one to *Pseudoeudesis* BINAGHI (*Afroeudesis*), and added another 130 new species. He has also described another 300 species from Spanish Guinea (including the description of the subgenus *Geoscydmaenus* in *Scydmaenus*) (FRANZ 1961c, 1985e), Nigeria (FRANZ 1966b, 1977a), Ghana (FRANZ 1963a, 1984c), Ivory Coast (including the description of the subgenus *Androscydmaenus* in *Scydmaenus*) (FRANZ 1980f, 1980g), Cameroon (including the description of the subgenus *Oreoedesis* in *Pseudoeudesis*) (FRANZ 1962c, 1985c), and Senegal (FRANZ 1966b). Two other major works are his revision of the Ethiopian scydmaenids (FRANZ 1982d) and scydmaenids collected by Basilewsky and Leleup from Uganda, Kenya, and Tanzania (FRANZ 1962a). The former is important in that he redescribed species previously described by REITTER (1880b, 1882) and SCHAUFUSS (1884) and the latter because it includes descriptions of two new subgenera of *Euconnus* (*Cephaloconnus* and *Cerviconnus*). In addition to these two articles, he has published several other papers on the central African fauna of Kenya, Gabon, Burundi, Ethiopia, Tanzania,

Zaire, and Rwanda (FRANZ 1963b, 1976c, 1981d, 1985e, 1987b, 1988b, 1991b). In his 1988 paper (FRANZ 1988b) he designated lectotypes for species described by him in his earlier works on the African fauna (FRANZ 1957b, 1958b, 1962a, 1963a, 1963b, 1966b). In all, he described over 160 species of *Scydmaenus* and *Euconnus* as well as species placed in *Stenichnaphes* FRANZ, *Microscydmus* SAULCY & CROISSANDEAU, and *Pseudoeudesis*.

Southern Africa. Franz' efforts on the previously poorly covered southern African fauna consist of two short, a moderate, and two long papers in which over 200 new species are described (FRANZ 1967a, 1979a, 1980a, 1984d, 1984e) and include the description of a single new subgenus, *Termitoscydmaenus* (FRANZ 1980a), in *Scydmaenus*. He described species mostly in *Euconnus* and *Scydmaenus*, but also included a few others in *Chevrolatia*, *Oneila* PERINGUEY, *Stenomastigus* LELEUP, and *Magellanoconnus* FRANZ.

Madagascar. Franz published only a single paper on the Madagascar fauna (FRANZ 1986d), but it is his lengthiest at nearly 400 pages in which he described almost 300 new species, three new genera (*Madagassoconnus*, *Clavigeroscydmus*, and *Anhoraemorphus*), two subgenera of *Scydmaenus* (*Seychellinus* and *Trapezoscydmaenus*) and six subgenera of *Euconnus* (*Paranapochus*, *Allonapochus*, *Filonapochus*, *Anthicimorphus*, *Nodoconnus*, and *Alloconophron*). Although a few species he described were placed in *Stenichnaphes*, *Madagassoconnus* FRANZ, and *Horaemorphus* SCHAUFUSS, most were placed into *Euconnus*, *Microscydmus*, or *Scydmaenus*.

Anatolia and Middle East. In Franz' seven short papers on the fauna of Anatolia and the Middle East (FRANZ 1966c, 1979b, 1981b, 1988c, 1991a, 1993a, 1997a) he described 18 new species in the genera *Euconnus*, *Scydmaenus*, *Neuraphes*, *Scydmorephes*, *Stenichnus*, and *Leptomastax* PIRAZZOLI and proposed *Taurablepton* as a new genus.

Nepal, India, Sri Lanka, and Indian Oceanic islands. Franz published the pioneering work treating the Nepalese and Indian faunas and provided the most comprehensive contribution on the Sri Lankan fauna. In one of his earliest works on the Nepalese fauna (FRANZ 1973) he described three new subgenera, *Nepaloscydmaenus* in *Scydmaenus*, *Mascarensia* in *Scydmaenus*, and *Pseudosyndicus* in *Horaemorphus*, and 51 new species. In his 1979 work (FRANZ 1979e), he proposed the *Euconnus* subgenera *Nepaloconnus* and *Himaloconnus* and an additional 30 new species. In his extensive revision of the Sri Lankan fauna (FRANZ 1982c) he described 177 new species as well as redescribing species proposed by MOTSCHULSKY (1851, 1858, 1863, 1870) and NIETNER (1856, 1857). In his other ten papers (FRANZ 1970a, 1970d, 1971g, 1974a, 1974c, 1975b, 1981a, 1981e, 1985d, 1985f) he added nearly 70 more new species. He also published two short papers describing scydmaenids from the Mascarene islands (FRANZ 1972a, 1974b) and revised the genus *Syndicus* (FRANZ 1971c). He described scydmaenids of this region in the genera *Euconnus*, *Scydmaenus*, *Microscydmus*, *Neseuthia* SCOTT, *Stenichnaphes*, *Eutheia*, *Neuraphes*, *Scydmorephes*, *Horaemorphus*, and *Stenichnus*.

East Asia and southeast Asia. Franz' contribution to the knowledge of the scydmaenid fauna of eastern Asia consists of a few relatively short papers in which nearly a dozen new species are described from Korea (FRANZ 1995a), Japan (FRANZ 1976a), China (FRANZ 1968b, 1988d), and Taiwan (FRANZ 1985a). For the southeast Asian scydmaenid fauna he has written several papers on Thai (FRANZ 1983c, 1985a, 1986c, 1989a) and Malaysia/Singapore scydmaenids (FRANZ 1970e, 1975f, 1990b), including descriptions of the new genera *Siamites*, *Parastenichnus*, and *Loeblites*, the *Scydmaenus* subgenus *Mimoscydmaenus*, and nearly 100 new species. His contributions on Indonesian scydmaenids center on the islands of Borneo (including Sarawak and Sabah) and Sumatra (FRANZ 1984b, 1992a, 1992b, FRANZ & LÖBL 1990) and include descriptions of the new genera *Eutheimorphus*, *Syndicomorphus*, *Borneosabahia*, and *Protoscydmus* and subgenera *Borneoconnus* (in *Euconnus*), *Parastenichnaphes* (in *Stenichnaphes*), and *Androschydmus* (in *Scydmaenus*), as well as over 140 new species. Also of importance, he redescribed species inadequately described by SCHAUFUSS (1884, 1889) and BLATTNY (1925, 1935) (FRANZ 1970e, 1984b, 1992a). The Malayan and Indonesian faunas also include members of *Euconnus*,

Scydmaenus, *Eutheia*, *Microscydms*, *Horaeomorphus*, *Neseuthia*, *Stenichnaphes*, and *Syndicus*.

New Guinea, New Zealand, and Pacific Ocean Islands. Aside from a few species described by SCHAUFFUS (1884) from New Guinea and BROWN (1880, 1886, 1893a, 1893b, 1915) from New Zealand, Franz has done the pioneering work describing the fauna for these islands. His efforts on the New Guinean fauna consist of several papers in which 19 new species are described (FRANZ 1971d, 1975e 1989c, 1993d) and his contributions on the New Zealand and New Caledonian faunas are quite substantial. From New Zealand he described the new genera *Chathamaneus* and *Stenichnaphes* as well as over 160 new species (FRANZ 1975c, 1977b, 1980h, 1986a) and reviewed species described by BROWN (1880, 1886, 1893a, 1893b, 1915). His major contribution on the New Caledonian fauna is his 1971 work (FRANZ 1971f), in which he proposed *Neuraphoconnus* and five subgenera: *Austrostenichnus* (in *Stenichnus*), *Heterotetramelus* (in *Euconnus*), *Austroconophron* (in *Euconnus*), *Heteroeustemmus* (in *Scydmaenus*), and *Armato-scydmaenus* (in *Scydmaenus*) and 63 new species. His two shorter papers on the New Caledonian fauna (FRANZ 1979d, 1987a), along with a couple of short papers on the Fiji fauna (FRANZ 1971f, 1986g), and a short paper on the Solomon Islands fauna (FRANZ 1965b) complete his contributions to the south Pacific scydmaenid fauna. All scydmaenids known from New Guinea are placed into either *Euconnus* or *Scydmaenus*. The more diverse New Zealand and New Caledonian faunas also include species placed in *Horaeomorphus*, *Neseuthia*, *Stenichnaphes*, and *Sciacharis*.

Australia. The most comprehensive work on Australian scydmaenids is the monograph by (FRANZ 1975c). This is one of his major contributions on scydmaenids, because, in addition to proposing the new genus *Palaeoscydmaenus*, two subgenera of *Euconnus* (*Anthicimorphus*, and *Dimorphoconnus*), five subgenera of *Scydmaenus* (*Scottiscydmaenus*, *Allomicrus*, *Corbulifer*, *Choleropsis*, and *Heteromicrus*), and over 100 new species, he redescribed species poorly described by KING (1864) and LEA (1907, 1910, 1912, 1915). In 1994 he published a short paper describing four more species (FRANZ 1994c).

America north of Mexico. Franz' single paper on the fauna of America north of Mexico (FRANZ 1985b) is extremely important regarding the higher classification of North American Scydmaenidae because he designated and redescribed type species for nearly all the genera and subgenera of Scydmaenidae proposed by CASEY (CASEY 1897). In addition to designating type species, he elevated the *Stenichnus* subgenera *Brachycephis* BRENDAL and *Parascydms* CASEY to genera, placed *Opresus* CASEY as a junior synonym of *Microscydms*, placed *Neladius* CASEY as a synonym of *Delius* CASEY and *Delius* a subgenus of *Microscydms*, placed *Noctophus* CASEY and *Drastophus* CASEY as synonyms of *Euconnus*, placed *Xestophus* CASEY as a synonym of *Psomophus* CASEY, and placed *Acholerops* CASEY as a synonym of *Scydmaenus*.

Mexico. Both of Franz' papers on the Mexican fauna (FRANZ 1977c, 1994a) are considerable contributions to the fauna of southern North America. In his first paper, he redescribed 17 species described by SCHAUFFUS (1867) from Mexico, described the first species of *Eutheia* known south of the United States, and published the first record of *Madagassoconnus* FRANZ from the New World. In his subsequent larger monograph on the Mexican fauna (FRANZ 1994a), he described 73 new species, mostly from southern Mexico.

Caribbean. Franz' two papers on the Caribbean fauna (FRANZ 1984f, 1991c) significantly add to the number of known species of the Antilles. He described 40 species from the Dominican Republic, Puerto Rico, Cuba, and the Lesser Antilles and redescribed the species described by REITTER (1883) from Puerto Rico.

South America. Over the past 30 years Franz has been very productive in describing South American Scydmaenidae. He described 13 new genera endemic to South America, 15 new subgenera, and over 500 new species from South America. The new genera include *Alloraphes*, *Archiconnus*, *Euconnomorphus*, *Heteroscydms*, *Microraphes*, *Mimoscydms*, *Napochoomorphus*, *Protandroconnus*, *Protoconnus*, *Pseudoconnus*, *Pseudoraphes*, *Stenichnoconnus*, and *Venezuela*.

noconnus. Of his 15 articles on the South American Scydmaenidae, three focus on the Venezuelan fauna (FRANZ 1986e, 1988a, 1989d), three to the fauna of Surinam (FRANZ 1983e, 1985g, 1989f), two to Brazilian species (FRANZ 1983b, 1994b), and eight to the South American fauna in general (FRANZ 1967b, 1980d, 1981c, 1989e, 1990a, 1993b, 1993c, 1997b). His first monograph for South America (FRANZ 1967b) was the first major treatment of the South American fauna since Schaufuss' monograph (SCHAUFUSS 1867). In it he included descriptions of more than 70 new species from Argentina, Brazil, Chile, Colombia, Peru, and Uruguay, proposed *Protoconnus* as a new genus, and recorded two other genera, *Pseudoeudesis* and *Scydmoraphes*, new to the Western Hemisphere. Franz' next major, and most comprehensive, monograph for South America (FRANZ 1980d) included descriptions of over 200 new species (132 in *Euconnus* alone), as well as nine new genera (see above), and five new subgenera. Since 1980, Franz has published numerous articles that, combined, account for more than 250 new species (over 200 in *Euconnus*), three additional new genera (see above), and seven more new subgenera.

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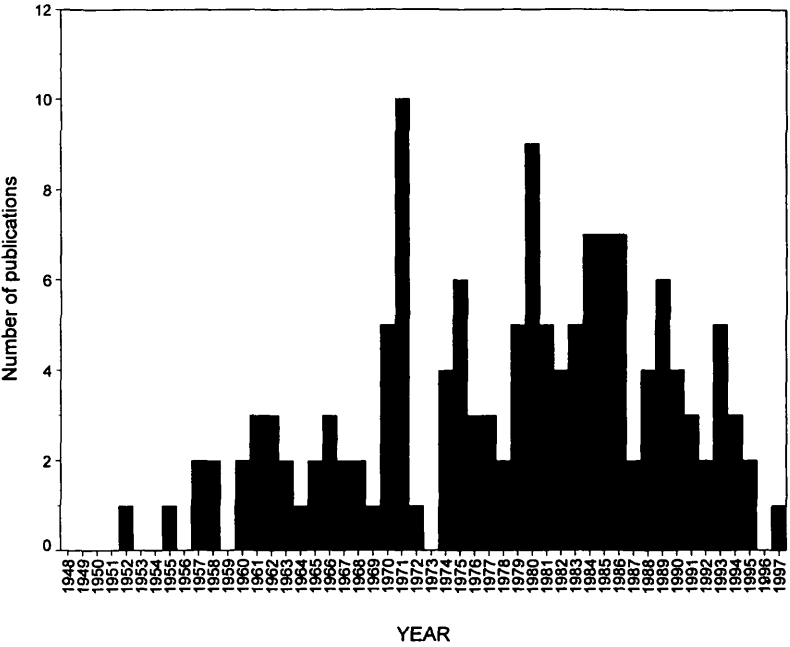


Fig. 2. Number of publications on Scydmaenidae by Herbert Franz by year.

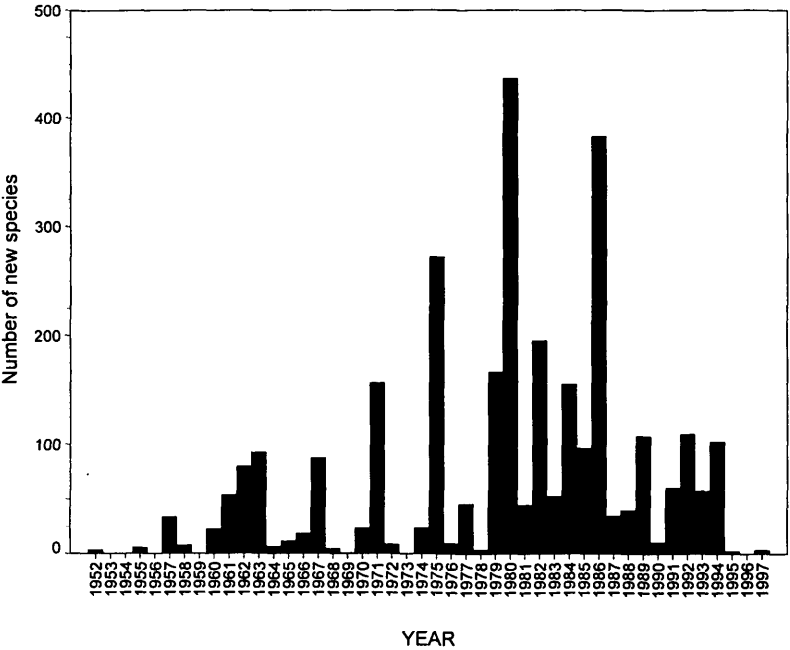


Fig. 3. Number of new species descriptions of Scydmaenidae by Herbert Franz by year.

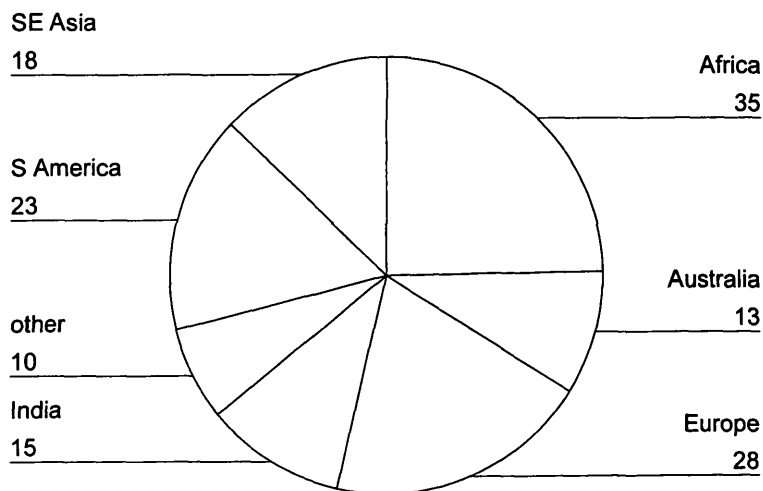


Fig. 4. Number of publications on Scydmaenidae by Herbert Franz arranged by geographic region. SE Asia includes China, Japan, southeast Asia, Indonesia, and Malaysia. S. America includes all of Latin America, i.e. Mexico, Central America, and the Antilles. Other includes publications on North America, Middle East, fossiles, etc. India also includes Nepal, Bhutan, and Sri Lanka. Africa also includes Madagascar. Australia also includes New Guinea, New Zealand, New Caledonia, and other Pacific Ocean islands.

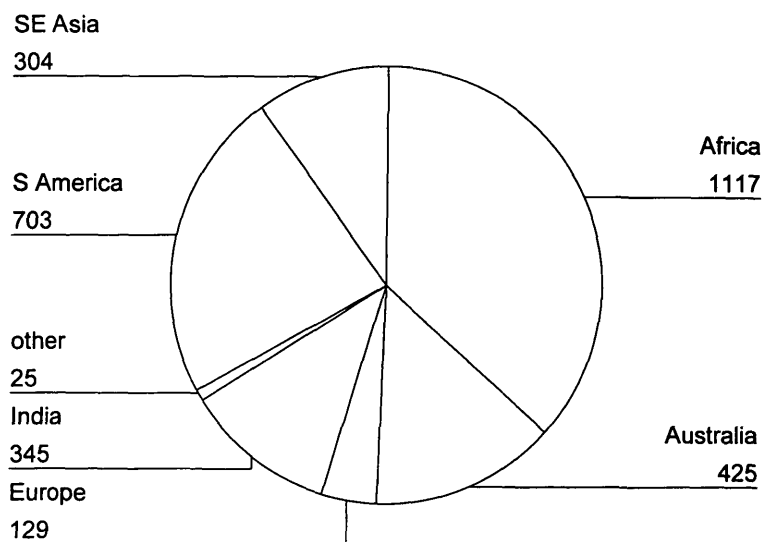


Fig. 5. Number of new species descriptions of Scydmaenidae by Herbert Franz arranged by geographic region.

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Appendix 1

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Appendix 2

Genera and subgenera of Scydmaenidae proposed by Herbert Franz (1952-1997)¹

Cephenniini

Paraneseuthia FRANZ 1986g: 154, Fiji

Cyrtoscydmini

Allohoraeomorphus FRANZ 1986g: 164, Fiji

Alloraphes FRANZ 1980d: 212, South America

Anhoraeomorphus FRANZ 1986d: 175, Madagascar

Archiconnus FRANZ 1980d: 189, Peru

Borneosabahia FRANZ 1992a: 893, Sabah

Chathamaenus FRANZ 1980h: 254, New Zealand

Euconnomorphus FRANZ 1980d: 207, Peru

Euconnus (*Alloconophron*) FRANZ 1986d: 261, Madagascar

Euconnus (*Allomaoria*)² FRANZ 1975c: 49, Australia

Euconnus (*Allonapochus*)³ FRANZ 1972a: 3, Africa

Euconnus (*Androconnus*) FRANZ 1986e: 21, South America

Euconnus (*Anthicimorphus*)⁴ FRANZ 1975c: 175, Australia

Euconnus (*Austroconophron*)⁵ FRANZ 1971f: 69, New Zealand

Euconnus (*Borneoconnus*) FRANZ 1992a: 900, Sabah

Euconnus (*Cephaloconnus*)⁶ FRANZ 1962a: 349, Africa

Euconnus (*Cerviconnus*) FRANZ 1962a: 368, Africa

Euconnus (*Dimorphoconnus*) FRANZ 1975c: 177, Australia

Euconnus (*Filonapochus*) FRANZ 1986d: 202, Madagascar

Euconnus (*Heteroconnus*) FRANZ 1963b: 40, Africa

Euconnus (*Heterotetramelus*) FRANZ 1971f: 63, New Caledonia

Euconnus (*Himaloconnus*) FRANZ 1979e: 244, Oriental

Euconnus (*Maoria*)⁷ FRANZ 1975c: 14, Australia

Euconnus (*Magellanoconnus*)⁸ FRANZ 1967b: 628, New Zealand

Euconnus (*Microconnus*) FRANZ 1994b: 81, South America

Euconnus (*Napoconnus*) FRANZ 1957b: 31, Africa

Euconnus (*Nepaloconnus*) FRANZ 1979e: 242, Nepal

Euconnus (*Nodoconnus*) FRANZ 1986d: 258, Madagascar

Euconnus (*Nudatoconnus*)⁹ FRANZ 1980d: 116, South America

Euconnus (*Palaeoconnus*) FRANZ 1995b: 53, Guatemala

Euconnus (*Paranapochus*)¹⁰ FRANZ 1986d: 192, Madagascar

Euconnus (*Paratetramelus*) FRANZ 1963b: 25, Africa

Euconnus (*Rhombiconnus*) FRANZ 1986e: 20, Venezuela

Euconnus (*Ursoconnus*) FRANZ 1963b: 42, Africa

Heteroscydmus FRANZ 1980d: 208, Bolivia

Horaeomorphus (*Pseudosyndicus*) FRANZ 1973: 122, Nepal

Loebrites FRANZ 1986c: 965, Thailand

*Madagassoconnus*¹¹ FRANZ 1986d: 112, Madagascar

Microraphes FRANZ 1980d: 222, Brazil

Microscydms (*Neoscydmus*) FRANZ 1980d: 200, South America

Mimoscydmus FRANZ 1980d: 220, Brazil

Napochomorphus FRANZ 1980d: 206, Brazil

Neuraphoconnus FRANZ 1971f: 46, New Zealand

Parastenichnus FRANZ 1970e: 574, Singapore

Protandroconnus FRANZ 1989e: 636, Peru

Protoconnus FRANZ 1967b: 716, South America

¹ This table was extracted in large part from NEWTON & FRANZ (1998). These names represent the original combinations. Subsequent combinations or cases of homonymy are noted below.

² Transferred to *Sciacharis* BROUN by FRANZ (1989e).

³ Description was not published until 1986 (FRANZ 1986d).

⁴ Description was not published until 1986 (FRANZ 1986d).

⁵ Transferred to *Sciacharis* by FRANZ (1986e).

⁶ Nomen nudum, no type species designated.

⁷ Preoccupied by *Maoria* LAPORTE; replaced by *Maorinus* FRANZ, 1980h: 291; raised to genus by KUSCHEL (1990).

⁸ Originally described as a subgenus in *Euconnus*, subsequently placed into *Sciacharis* by FRANZ (1980h), and raised to genus by KUSCHEL (1990) (retained as a subgenus in FRANZ 1993b).

⁹ Placed as a junior synonym of *Pycnophus* CASEY (FRANZ 1985c).

¹⁰ First appeared in print in FRANZ (1973).

¹¹ First appeared in print in FRANZ (1977c) as a subgenus of *Euconnus*.

- Protoscydmus* FRANZ 1992a: 948, Sabah
*Pseudoconnus*¹² FRANZ 1980d: 216, South America
Pseudoconnus (*Parapseudoconnus*) FRANZ 1980d: 218, South America
Pseudoraphes FRANZ 1980d: 209, Peru
Sciacharis (*Anthicimimus*) FRANZ 1993b: 100, Chile
Sciacharis (*Valdivioconnus*) FRANZ 1980d: 252, Chile
Stenichnaphes FRANZ 1980h: 255, New Zealand
Stenichnaphes (*Parastenichnaphes*) FRANZ 1984b: 90, Sumatra
Stenichnoconnus FRANZ 1985g: 114, Surinam
Stenichnodes FRANZ 1966c: 626, Chad
Stenichnus (*Austrostenichnus*) FRANZ 1971f: 45, New Zealand
Syndicomorphus FRANZ 1992a: 892, Sabah
Venezolanoconnus FRANZ 1988a: 81, Venezuela
- Eutheini**
Eutheimorphus FRANZ & LÖBL 1990: 169, Sabah
Protoeuthia FRANZ 1970b: 31, Europe
- Leptomastacini**
Taurablepton FRANZ 1988c: 111, Turkey
- Siamitini**
Siamites FRANZ 1989a: 44, Thailand
- Scydmaenini**
Clavigeroscydmus FRANZ 1986d: 374, Madagascar
Palaeoscydmaenus FRANZ 1975c: 272, Australia
Pseudoeudesis (*Afroeudesis*) FRANZ 1963b: 16, Tanzania
Pseudoeudesis (*Oreoeudesis*) FRANZ 1985c: 332, East Africa
Scydmaenus (*Afroscydmaenus*) FRANZ 1963b: 5, Chad
Scydmaenus (*Allomicrus*)¹³ FRANZ 1975c: 284, Australia
Scydmaenus (*Androscydmaenus*) FRANZ 1980f: 691, Africa
Scydmaenus (*Androscydmaenus*)¹⁴ FRANZ 1992a: 870, Sabah
Scydmaenus (*Armatoescydmaenus*) FRANZ 1971f: 100, New Caledonia
Scydmaenus (*Austroscydmaenus*)¹⁵ FRANZ 1975c: 117, New Zealand
Scydmaenus (*Breviclavatoscydmaenus*)¹⁶ FRANZ 1994b: 63, South America
Scydmaenus (*Choleropsis*) FRANZ 1975c: 291, Australia
Scydmaenus (*Conoscydmaenus*) FRANZ 1980d: 68, Brazil
Scydmaenus (*Corbulifer*) FRANZ 1975c: 286, Australia
Scydmaenus (*Eustemmoides*) FRANZ 1958b: 3, Africa
Scydmaenus (*Geoscydmaenus*) FRANZ 1961c: 177, Africa
Scydmaenus (*Heteroeustemmus*) FRANZ 1971f: 97, New Caledonia
Scydmaenus (*Heteromicrus*)¹⁷ FRANZ 1975c: 300, Australia
Scydmaenus (*Mascarensia*) FRANZ 1973: 120, Nepal
Scydmaenus (*Mimoscydmaenus*) FRANZ 1986c: 967, Thailand
Scydmaenus (*Nepaloscydmaenus*) FRANZ 1973: 118, Nepal
Scydmaenus (*Palaeoscydmaenus*)¹⁸ FRANZ 1985g: 109, Surinam
Scydmaenus (*Paraeustemmus*) FRANZ 1955: 1051, Morocco
Scydmaenus (*Parageoscydmaenus*) FRANZ 1980d: 69, South America
Scydmaenus (*Scottiscydmaenus*) FRANZ 1975c: 277, Australia
Scydmaenus (*Seychellinus*) FRANZ 1986d: 359, Seychelles
Scydmaenus (*Termitoscydmaenus*) FRANZ 1980d: 55, South Africa
Scydmaenus (*Trapezoscydmaenus*) FRANZ 1986d: 366, Africa
- Syndicini**
Syndicus (*Androsyndicus*) FRANZ 1971c: 20, Sri Lanka

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¹² Preoccupied by *Pseudoconnus* LELEUP; amended first to *Neuraphomimus* (FRANZ 1986b: 44) and subsequently (unnecessarily) to *Vetusteconnus* (FRANZ 1993b: 101).

¹³ Preoccupied by *Allomicrus* GAHAN; first appeared in print in FRANZ (1971f).

¹⁴ A junior homonym of *Androscydmaenus* FRANZ (1980d).

¹⁵ Transferred to *Adrastia* BROWN by KUSCHEL (1990).

¹⁶ First appeared in print in FRANZ (1993e).

¹⁷ First appeared in print in FRANZ (1971f).

¹⁸ A junior homonym of *Palaeoscydmaenus* FRANZ (1975c).

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