

Die Typen und Typoide
des Natur-Museums Senckenberg, 27¹⁾:
Mollusca, Pupillacea 1 (Amastridae, Cochlicopidae, Pyramidulidae).

Von

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Mit Tafel 7

Amastridae.
Leptachatinae.

Leptachatina GOULD 1847

Leptachatina (Leptachatina) s. str.

— — **attenuata** COOKE 1911.

1911 *Leptachatina [Leptachatina] attenuata* COOKE, Man. Conch., (2) 21 (82): 69.
Hawaii-Ins. (Kauai): Haleieie. COOKE d. ex 14592 BPBM [Paratypen SMF 7289/2].

— — **baldwini** COOKE 1910.

1910 *Leptachatina [Leptachatina] baldwini* COOKE, Man. Conch., (2) 21 (81): 12.
Hawaii-Ins. (W-Maui): Lahaina. COOKE d. ex 14950 BPBM [Paratypus SMF 7340].

— — **brevicula micra** COOKE 1910.

1910 *Leptachatina [Leptachatina] brevicula micra* COOKE, Man. Conch., (2) 21 (81): 24.
Hawaii-Ins. (Kauai): Haleieie. COOKE d. ex 14610 BPBM [Paratypus SMF 7291].

— — **captiosa** COOKE 1910.

1910 *Leptachatina [Leptachatina] captiosa* COOKE, Man. Conch., (2) 21 (81): 29.
Hawaii-Ins. (Oahu): Waianae Mts. back of Leilehua. COOKE d. ex 14340 BPBM [Paratypus SMF 7315].

— — **konaensis olaensis** COOKE 1910.

1910 *Leptachatina [Leptachatina] konaensis olaensis* COOKE, Man. Conch., (2) 21 (81): 45.
Hawaii-Ins. (Hawaii): Olaa. COOKE d. ex 14760 BPBM [Paratypus SMF 7338].

¹⁾ 26: Arch. Moll., 91 (1/3): 77-94. Frankfurt am Main 1962.

Leptachatina (*Leptachatina*)

— — **kuhnsi** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *kuhnsi* COOKE, Man. Conch., (2) 21 (81): 48.

Hawaii-Ins. (W-Maui): Maunahooma. COOKE d. ex 15083 BPBM [Paratypus SMF 7333].

— — **lanaiensis** COOKE 1911.

1911 *Leptachatina* [*Leptachatina*] *lanaiensis* COOKE, Man. Conch., (2) 21 (82): 67

Hawaii-Ins. (Lanai). COOKE d. ex 15032 BPBM [Paratypus SMF 7345];
THAANUM d., Slg. JETSCHIN [Paratypen SMF 166363/4].

— — **nitida occidentalis** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *nitida occidentalis* COOKE, Man. Conch., (2) 21 (81): 43.

Hawaii-Ins. (W-Maui): Maunahoomaha. COOKE d. ex 14699 BPBM [Paratypus SMF 7336].

— — **oryza avus** PILSBRY & COOKE 1914.

1914 *Leptachatina* *oryza avus* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 5.

Hawaii-Ins. (Molokai): Moomomi. COOKE d. ex 37386 BPBM [Paratypen SMF 7348/5].

— — **ovata** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *ovata* COOKE, Man. Conch., (2) 21 (81): 33.

Hawaii-Ins. (W-Maui): „Mahakea“ COOKE d. ex 14700 BPBM [Paratypen SMF 7337/2].

— — **pachystoma cylindrella** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *pachystoma cylindrella* COOKE, Man. Conch., (2) 21 (81): 51.

Hawaii-Ins. (Kauai): Haleieie. COOKE d. ex 14595 BPBM [Paratypen SMF 7294/3].

— — **pilsbryi** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *pilsbryi* COOKE, Man. Conch., (2) 21 (81): 55.

Hawaii-Ins. (Oahu): Kaaawa. COOKE d. ex 15919 BPBM [Paratypus SMF 7313].

— — **pulchra** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *pulchra* COOKE, Man. Conch., (2) 21 (81): 29.

Hawaii-Ins (Oahu): Waianae Mts. back of Leilehua. COOKE d. ex 14341 BPBM [Paratypus SMF 7309].

— — **pupoidea** COOKE 1911.

1911 *Leptachatina* [*Leptachatina*] *pupoidea* COOKE, Man. Conch., (2) 21 (82): 74.

Hawaii-Ins. (Kauai): Milolii. COOKE d. ex 14622 BPBM [Paratypen SMF 7295/2].

— — **subovata** COOKE 1910.

1910 *Leptachatina* [*Leptachatina*] *subovata* COOKE, Man. Conch., (2) 21 (81): 37.

Hawaii-Ins. (Lanai). COOKE d. ex 15035 BPBM [Paratypus SMF 7341];
THAANUM d., Slg. JETSCHIN [Paratypen SMF 166364/4].

Leptachatina (Leptachatina)

— — **varia** COOKE 1910.

1910 *Leptachatina [Leptachatina] varia* COOKE, Man. Conch., (2) 21 (81): 32.

Hawaii-Ins (Molokai): Palikoi in Halewa. COOKE d. ex 15063 BPBM [Paratypen SMF 7347/2].

Leptachatina (Angulidens) PILSBRY & COOKE 1914.

— — **anceyana** COOKE 1910.

1910 *Leptachatina [Leptachatina] anceyana* COOKE, Man. Conch., (2) 21 (81): 39.

Hawaii-Ins. (Hawaii): Mana. COOKE d. ex 14740 BPBM [Paratypen SMF 7329/2].

— — **cookei** PILSBRY 1914.

1914 *Leptachatina cookei* PILSBRY, Nautilus, 28: 61.

Hawaii-Ins. (Oahu): Kawaihapai, Vaianas Mts. COOKE d. ex 35653 BPBM [Paratypus SMF 7318].

— — **subcylindracea** COOKE 1910.

1959 *Leptachatina (Angulidens) subcylindracea*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 139-140 Abb. 465.

Hawaii-Ins. (Oahu): Kahuku. COOKE d. ex 33466 BPBM [Orig. fig. SMF 7324/2].

Leptachatina (Labiella) L. PFEIFFER 1854.

— — **labiata** (NEWCOMB 1853).

1959 *Leptachatina (Labiella) labiata*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 139, 140 Abb. 466.

Hawaii-Ins. (Oahu): Popouwela, Waianae Mts. COOKE d. ex 33830 BPBM [Orig. fig. SMF 7319/2].

Pauahia COOKE 1911.

— **chrysallis** (L. PFEIFFER 1855).

1939 *Pauahia chrysallis*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 140 Abb. 467.

Hawaii-Ins. (Oahu): Helemano. COOKE d. ex 55693 BPBM [Orig. fig. SMF 7360].

Thaanumia ANCEY 1899.

— **dulcis** (COOKE 1911).

1911 *Leptachatina [Thaanumia] dulcis* COOKE, Man. Conch., (2) 21 (82): 85.

Hawaii-Ins. (O-Maui): Ulupalakua. COOKE d. ex 55777 BPBM [Paratypus SMF 7332].

— **morbida** (COOKE 1911).

1911 *Leptachatina [Thaanumia] morbida* COOKE, Man. Conch., (2) 21 (82): 87.

Hawaii-Ins. (Molokai): „Waikolu“ COOKE d. ex 15051 BPBM [Paratypen SMF 7352/2]; THAANUM d., Slg. JETSCHIN [Paratypen SMF 166365/4].

Thaanumia

— **omphalodes** ANCEY 1899.

1959 *Thaanumia omphalodes*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 140 Abb. 468.

Hawaii-Ins. (Oahu): Kupehau, Waianae Mts. COOKE d. ex 59473 BPBM [Orig. fig. SMF 7321].

Armsia PILSBRY 1911.

— **petasus** (ANCEY 1899).

1959 *Armsia petasus*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 140 Abb. 469.

Hawaii-Ins. (Oahu): Kanehoa, Waianae Mts. COOKE d. ex 37088 BPBM [Orig. fig. SMF 7195/2].

Ilikala COOKE 1911.

— **fusca** (NEWCOMB 1853).

1959 *Ilikala fusca*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 140 Abb. 470.

Hawaii-Ins. (Oahu): Konahuanui. COOKE d. ex 51347 BPBM [Orig. fig. SMF 7322/2].

Amastrinae.

Amastra H. & A. ADAMS 1855.

Amastra (Amastrella) SYKES 1900.

— — **abavus** PILSBRY 1911.

1911 *Amastra [Amastrella] abavus* PILSBRY, Man. Conch., (2) 21 (84): 255.

Hawaii-Ins. (Molokai): Pukoo. COOKE d. ex 23505 BPBM [Paratypus SMF 7213].

— — **anthonii meineckeii** COOKE 1933.

1933 *Amastra (Amastrella) anthonii meineckeii* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 14.

Hawaii-Ins. (Kauai): Kalalau. COOKE d. ex 86485 BPBM [Paratypus SMF 7267].

— — **conica gentilis** COOKE 1917.

1917 *Amastra [Amastrella] conica gentilis* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 233.

Hawaii-Ins. (Hawaii): Waikii. COOKE d. ex 41968 BPBM [Paratypus SMF 7247].

— — **flavescens emortua** COOKE 1917.

1917 *Amastra [Amastrella] flavescens emortua* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 231.

Hawaii-Ins. (Hawaii): Huelue. COOKE d. ex 41972 BPBM [Paratypus SMF 7230].

— — **fragosa** COOKE 1917.

1917 *Amastra [Amastrella] fragosa* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 236.

Amastra (Amastrella)

Hawaii-Ins. (Hawaii): Pleistocene at Kapulehu. COOKE d. ex 41977 BPBM [Paratypus SMF 7242].

— — **ovatula** COOKE 1933.

1933 *Amastra (Amastrella) ovatula* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 17.

Hawaii-Ins. (Kauai): Pleistocene deposits, Haena plain. COOKE d. ex 37537 BPBM [Paratypus SMF 7272].

— — **pagodula** COOKE 1917.

1917 *Amastra [Amastrella] pagodula* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 237.

Hawaii-Ins. (Hawaii): Pleistocene at Huehue. COOKE d. ex 41975 BPBM [Paratypus SMF 7225].

— — **rugulosa annosa** COOKE 1917.

1917 *Amastra [Amastrella] rugulosa annosa* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 230.

Hawaii-Ins. (Kauai): Pleistocene deposits of Hanamaulu plains south of Wailua river. COOKE d. ex 19476 BPBM [Paratypen SMF 7243/4].

— — **rugulosa fastigata** COOKE 1917.

1917 *Amastra [Amastrella] rugulosa fastigata* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 229.

Hawaii-Ins. (Kauai): Pleistocene of Koloa. COOKE d. ex 35809 BPBM [Paratypen SMF 7232/4].

— — **rugulosa normalis** PILSBRY 1911.

1959 *Amastra (Amastrella) rugulosa normalis*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 141 Abb. 471.

Hawaii-Ins. (Kauai): Kipu. COOKE d. ex 20687 BPBM [Orig. fig. SMF 7239/4].

Amastra (Metamastra) HYATT & PILSBRY 1911.

— — **aemulator** PILSBRY 1911.

1911 *Amastra [Metamastra] aemulator* PILSBRY, Man. Conch., (2) 21 (83): 190.

Hawaii-Ins. (Oahu): Kahauiki. THAANUM d., Slg. JETSCHIN [Paratypen SMF 166366/3].

— — **paulula** COOKE 1917.

1917 *Amastra [Metamastra] paulula* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 240.

Hawaii-Ins. (Oahu): Pleistocene of Malaikahana. COOKE d. ex 41005 BPBM [Paratypen SMF 7244/2].

— — **reticulata** (NEWCOMB 1854).

1959 *Amastra (Metamastra) reticulata*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 141 Abb. 472.

Hawaii-Ins. (Oahu). Slg. MOELLENDORFF [Orig. fig. SMF 157906/2].

Amastra (Metamastra)

— — **subrostrata acuminata** COOKE 1933.

1933 *Amastra (Metamastra) subrostrata acuminata* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 21.

Hawaii-Ins. (Oahu): Luahualei, Waianae Mts. COOKE d. ex 91998 BPBM [Paratypen SMF 7271/2].

Amastra (Paramastra) HYATT & PILSBRY 1911.

— — **micans frosti** ANCEY 1892.

1892 *Amastra frosti* ANCEY, Mém. Soc. zool. France, 5: 719.

Hawaii-Ins. (Oahu): Waianae Mts. ANCEY d., Slg. MOELLENDORFF [Syn-
typen SMF 166367/3].

— — **spirizona** (FÉRUSSAC 1824).

1959 *Amastra (Paramastra) spirizona*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 141
Abb. 473.

Hawaii-Ins. (Oahu) .BALDWIN d., Slg. JETSCHIN [Orig. fig. SMF 157907/2].

Amastra (Amastra) s. str.

— — **baldwiniana** PILSBRY 1911.

1911 *Amastra [Amastra] baldwiniana* PILSBRY, Man. Conch., (2) 21 (84): 292.

Hawaii-Ins. (W-Maui): Wailuku. COOKE d. ex 55672 BPBM [Paratypus
SMF 7228].

— — **humilis moomomiensis** PILSBRY & COOKE 1914.

1914 *Amastra humilis moomomiensis* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 38.

Hawaii-Ins. (Molokai): Pleistocene of Moomomi. COOKE d. ex 37382 BPBM
[Paratypen SMF 7238/4].

— — **humilis sepulta** PILSBRY & COOKE 1914.

1914 *Amastra humilis sepulta* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 39.

Hawaii-Ins. (Molokai): Pleistocene of Moomomi. COOKE d. ex 37383 BPBM
[Paratypen SMF 7215/2].

— — **inopinata** COOKE 1933.

1933 *Amastra [Amastra] inopinata* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10
(6): 23.

Hawaii-Ins. (O-Maui): Keokea. COOKE d. ex 52838 BPBM [Paratypus
SMF 7273].

— — **kalamaulensis** PILSBRY & COOKE 1914.

1914 *Amastra kalamaulensis* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 37.

Hawaii-Ins. (Molokai): Kalamaula. COOKE d. ex 36823 BPBM [Paratypus
SMF 7245].

— — **kaunakakaiensis** PILSBRY & COOKE 1914.

1914 *Amastra kaunakakaiensis* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 36.

Hawaii-Ins. (Molokai): Kaunakakai. COOKE d. ex 33628 BPBM [Para-
typus SMF 7222].

Amastra (*Amastra*)

— — **magna** (C. B. ADAMS 1850).

1959 *Amastra* (*Amastra*) *magna*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 141 Abb. 474.
Hawaii-Ins. (Lanai). THAANUM d., Slg. JETSCHIN [Orig. fig. SMF 157908/2].

— — **makawaoensis** PILSBRY 1911.

1911 *Amastra* [*Amastra*] *makawaoensis* PILSBRY, Man. Conch., (2) 21 (84): 294.

Hawaii-Ins. (O-Maui): Makawao. COOKE d. ex 55474 BPBM [Paratypus SMF 7237].

— — **nana** BALDWIN 1895.

1895 *Amastra nana* BALDWIN, Proc. Acad. nat. Sci. Philad., 1895: 232.

Hawaii-Ins. (O-Maui): Makawao. COOKE d. ex 55562 BPBM [Paratypus SMF 7220]; BALDWIN d., Slg. MOELLENDORFF [Paratypen SMF 166369/4].

— — **nubilosa** MIGHELS 1845.

1845 *Achatinella nubilosa* MIGHELS, Proc. Boston Soc. nat. Hist., 2: 20.

Hawaii-Ins. (Molokai): Mus. comp. Zool. m. ex PEASE coll. [Paratypen SMF 4946/6].

— — **pullata pullata** BALDWIN 1895.

1895 *Amastra pullata* BALDWIN, Proc. Acad. nat. Sci. Philad., 1895: 228.

Hawaii-Ins. (Molokai). BALDWIN d., Slg. MOELLENDORFF [Paratypen SMF 166370/6].

— — **pullata umbrosa** BALDWIN 1895.

1895 *Amastra umbrosa* BALDWIN, Proc. Acad. nat. Sci. Philad., 1895: 229.

Hawaii-Ins. (Molokai): BALDWIN d., Slg. MOELLENDORFF [Paratypen SMF 166371/3].

— — **sykesi** PILSBRY 1911.

1911 *Amastra* [*Amastra*] *sykesi* PILSBRY, Man. Conch., (2) 21 (84): 273.

Hawaii-Ins. (Molokai): Halawa. THAANUM d., Slg. JETSCHIN [Paratypen SMF 166372/2]; COOKE d. ex 23501 BPBM [Paratypus SMF 7223].

— — **uniplicata uniplicata** HARTMAN 1888.

1888 *Amastra uniplicata* HARTMAN, Proc. Acad. nat. Sci. Philad., 1888: 50.

Hawaii-Ins. (Molokai). HARTMAN d., Slg. MOELLENDORFF [Syntypen SMF 166373/2].

— — **uniplicata vetuscula** COOKE 1917

1917 *Amastra* [*Amastra*] *uniplicata vetuscula* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 244.

Hawaii-Ins. (Molokai): Pleistocene of the shifting sands north of Mauna Loa. COOKE d. ex 40102 BPBM [Paratypus SMF 7234].

— — **violacea wailauensis** PILSBRY 1911.

1911 *Amastra* [*Amastra*] *violacea wailauensis* PILSBRY, Man. Conch., (2) 21 (84): 258.

Hawaii-Ins. (Molokai): Wailau. COOKE d. ex 23180 BPBM [Paratypus SMF 7229].

Amastra (Heteramastra) PILSBRY 1911.

— — ***auwahiensis*** PILSBRY & COOKE 1914.

1914 *Amastra [Heteramastra] subsoror auwahiensis* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 48.

Hawaii-Ins. (O-Maui): Auwahi. COOKE d. ex 36906 BPBM [Paratypus SMF 7355].

— — ***hutchinsonii*** (PEASE 1862).

1959 *Amastra (Heteramastra) hutchinsonii*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 141, 142 Abb. 475.

Hawaii-Ins. (O-Maui): Makawao. COOKE d. ex 25694 BPBM [Orig. fig. SMF 7270/2].

— — ***nannodes*** COOKE 1933.

1933 *Amastra (Heteramastra) nannodes* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 26.

Hawaii-Ins. (O-Maui): Keokea. COOKE d. ex 52846 BPBM [Paratypus SMF 7269].

— — ***nubigena*** PILSBRY & COOKE 1914.

1914 *Amastra nubigena* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 48.

Hawaii-Ins. (W-Maui): Maunahooma. COOKE d. ex 21188 BPBM [Paratypus SMF 7358].

Cyclamastra PILSBRY & VANATTA 1905.

— ***cyclostoma*** (BALDWIN 1895).

1895 *Amastra cyclostoma* BALDWIN, Proc. Acad. nat. Sci. Philad., 1895: 234.

1959 *Cyclamastra cyclostoma*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 142 Abb. 476.

Hawaii-Ins. (Kauai): Mukaweli. COOKE d. ex 109563 BPBM [Paratypus Orig. fig. SMF 7277].

— ***delicata*** (COOKE 1933).

1933 *Amastra (Cyclamastra) delicata* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 7.

Hawaii-Ins. (Kauai): Nounou Mts. COOKE d. ex 80942-5 BPBM [Paratypen SMF 7266/2].

? — ***problematica*** (COOKE 1933)

1933 *Amastra (Cyclamastra) problematica* COOKE, Occ. Pap. Bernice P. Bishop Mus., 10 (6): 9.

Hawaii-Ins. (Oahu): Kawaihoa. COOKE d. ex 44928 BPBM [Paratypus SMF 7265].

— ***ultima*** (PILSBRY & COOKE 1914).

1914 *Amastra [Cyclamastra] ultima* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 25.

Hawaii-Ins. (Hawaii): Kahuku, Kau. COOKE d. ex 55516 BPBM [Paratypus SMF 7261].

Cyclamastra

— **umbilicata arenarum** (PILSBRY & COOKE 1914).

1914 *Amastra* [*Cyclamastra*] *umbilicata arenarum* PILSBRY & COOKE, Man. Conch., (2) 23 (89): 23.

Hawaii-Ins. (Molokai): Pleistocene sand dunes of Moomomi. COOKE d. ex 37381 BPBM [Paratypen SMF 7256/5].

— **umbilicata pluscula** (COOKE 1917).

1917 *Amastra* [*Cyclamastra*] *umbilicata pluscula* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (3): 228.

Hawaii-Ins. (Hawaii): Kapulehu. COOKE d. ex 41979 BPBM [Paratypen SMF 7263/3].

Laminella L. PFEIFFER 1854.

— **alexandri duoplicata** BALDWIN 1908.

1908 *Laminella duoplicata* BALDWIN, Nautilus, 22: 68.

Hawaii-Ins. (W-Maui): Waiehu. COOKE d. ex 55389 BPBM [Paratypen SMF 7282/2].

— **aspera** BALDWIN 1908.

1908 *Laminella aspera* BALDWIN, Nautilus, 22: 68.

Hawaii-Ins. (W-Maui): Wailuku. COOKE d. ex 55387-8 BPBM [Paratypen SMF 7284/2].

— **citrina helvina** BALDWIN 1895.

1895 *Laminella helvina* BALDWIN, Proc. Acad. nat. Sci. Philad., 1895: 227.

Hawaii-Ins. (Molokai): Ohiu Valley. COOKE d. ex 55406 BPBM [Paratypus SMF 7285]; BALDWIN d., Slg. MOELLENDORFF [Paratypen SMF 166374/3].

— **gravida gravida** (FÉRUSSAC 1824).

1959 *Laminella gravida*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 142, 143 Abb. 479.

Hawaii-Ins. (Oahu): Palolo. THAANUM d., Slg. JETSCHIN [Orig. fig. SMF 157909/4].

— **gravida aurantium** PILSBRY & COOKE 1915.

1915 *Laminella gravida aurantium* PILSBRY & COOKE, Man. Conch., (2) 23 (90): 54.

Hawaii-Ins. (Oahu): Waiahole. THAANUM d., Slg. JETSCHIN [Paratypen SMF 166375/3]; COOKE d. ex 50702 BPBM [Topotypus SMF 7288].

— **gravida kalihensis** PILSBRY & COOKE 1915.

1915 *Laminella gravida kalihensis* PILSBRY & COOKE, Man. Conch., (2) 23 (90): 54.

Hawaii-Ins. (Oahu): Kalihi. COOKE d. ex 25878 BPBM [Paratypen SMF 7286/2].

— **kuhnsi** COOKE 1908.

1908 *Amastra* (*Laminella*) *kuhnsi* COOKE, Occ. Pap. Bernice P. Bishop Mus., 3 (2): 217.

Hawaii-Ins. (W-Maui): Kahakuloa. COOKE d. ex 16662 BPBM (Paratypus SMF 7283].

Carelia H. & A. ADAMS 1855.

— **bicolor** (JAY 1839).

1959 *Carelia bicolor*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 142, 143 Abb. 480.

Hawaii-Ins. (Kauai): Hoolulu. COOKE d. ex 104088-92 BPBM [Orig. fig. SMF 7208/3].

— **dolei isenbergi** COOKE 1931.

1931 *Carelia dolei isenbergi* COOKE, Bull. Bernice P. Bishop Mus., 85: 53.

Hawaii-Ins. (Kauai): Haena plain. COOKE d. ex 37542 BPBM [Paratypus SMF 7204].

— **glossema** COOKE 1931.

1931 *Carelia glossema* COOKE, Bull. Bernice P. Bishop Mus., 85: 80.

Hawaii-Ins. (Kauai): Olekele. COOKE d. ex 86084 BPBM [Paratypen SMF 7199/2].

Tropidoptera ANCEY 1889.

— **alata litus** (PILSBRY 1911).

1911 *Pterodiscus alatus litus* PILSBRY, Man. Conch., (2) 21 (82): 122.

1959 *Tropidoptera alata litus*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 143 Abb. 481.

Hawaii-Ins. (Lanai). THAANUM d., Slg. JETSCHIN [Paratypen Orig. fig. SMF 157910/4].

Planamastra PILSBRY 1911.

— **digonophora** (ANCEY 1889).

1959 *Planamastra digonophora*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 143 Abb. 482.

Hawaii-Ins. (Oahu): BALDWIN d., Slg. JETSCHIN [Orig. fig. SMF 157911/4].

Cochlicopidae.

Azeca LEACH 1828.

— **menkeana** (C. PFEIFFER 1821). Taf. 7 Fig. 1.

1821 *Carychium Menkeanum* C. PFEIFFER, Syst. Anordnung: 70 T. 3 F. 42.

1839 *Achatina Goodalii*, — ROSSMÄSSLER, Icon., (1) 2 (3/4): 33 T. 49 F. 654.

1933 *Azeca menkeana*, — EHRMANN, Tierwelt: 33 T. 1 F. 4, 4a.

1959 *Azeca menkeana*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 144 Abb. 483.

Subfossil „in ausgegrabener fetter, torfiger schwarzer Erde, an den neuen Fischteichen, zu Ende einer der Brunnenalleen bey Pyrmont“. Slg. C. TH. MENKE (C. PFEIFFER) [Lectotypus (ZILCH 1939) und Paratypen SMF 56907/3].

Hessen: „auf dem Schootenberge unweit Zierenberg, 3 Stunden von Cassel“ SANDROCK d., Slg. ROSSMÄSSLER [die Belegstücke nicht aufgefunden].

Unterharz: Alter Stolberg, nö. der Kalkhütte. Slg. EHRMANN [Orig. zu 1933 T. 1 F. 4, 4a = SMF 56915a].

— **tridentiformis** (GOTTSCHICK 1911).

1911 *Cionella (Azeca) tridentiformis* GOTTSCHICK, Jh. Ver. vaterl. Naturk. Württ., 67: 507.

O. Miozän (Sarmat): Steinheim am Aalbuch. GOTTSCHICK d., Slg. K. FISCHER [Syntypus SMF 151076].

Hypnophila BOURGUIGNAT 1858.

— **cyclothyr** (O. BOETTGER 1885). Taf. 7 Fig. 2.

1885 *Cochlicopa (Hypnophila) cyclothyr* O. BOETTGER, Nachr. Bl. dtsh. malak. Ges., 17: 121.

Griechenland: Santameri, Achaia. CONÉMENOS d. 1885, Slg. O. BOETTGER [Lectotypus SMF 166387, Paratypus SMF 166388].

— **cylindr** (CALCARA 1840).

1894 *Ferussacia (Hypnophila) cylindr*, — KOBELT, Icon., (2) 7: 23 T. 185 F. 1173.

1908 *A[zeca (Hypnophila)] cylindr*, — PILSBRY, Man. Conch., (2) 19 (76): 302 T. 47 F. 10 [Kopie].

Sizilien: Palermo. MONTEROSATO d., Slg. KOBELT [Orig. fig. SMF 166390/5].

— **emiliana** (BOURGUIGNAT 1858).

1894 *Ferussacia (Hypnophila) emiliana*, — KOBELT, Icon., (2) 7: 23 T. 185 F. 1172.

Sizilien: Insel Maretimo. BENOIT d., Slg. KOBELT [Orig. fig. SMF 166392].

— **pupaeformis** (CANTRAINE 1836).

1894 *Ferussacia (Hypnophila) pupaeformis*, — KOBELT, Icon., (2) 7: 20 T. 185 F. 1167b.

1908 *A[zeca (Hypnophila)] pupaeformis*, — PILSBRY, Man. Conch., (2) 19 (76): 298 T. 47 F. 9 [Kopie].

1959 *Hypnophila pupaeformis*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 144 Abb. 484.

S-Dalmatien: HÖBERTH d., Slg. KOBELT [Orig. Ic. 1167b = SMF 166394/2].

Dalmatien: Almissa. A. J. WAGNER d., Slg. JETSCHIN [Orig. 1959 Abb. 484 = SMF 107986/6].

(*dentiens* ROSSMÄSSLER 1839).

1839 *Achatina dentiens* ROSSMÄSSLER, Icon., (1) 2 (3/4): 33 T. 49 F. 655.

1894 *Ferussacia (Hypnophila) pupaeformis*, — KOBELT, Icon., (2) 7: 20 T. 185 F. 1167a [Kopie].

„Griechenland“ ROLLET d., Slg. ROSSMÄSSLER [2 Stücke beschrieben]. Die beiden Stücke sind nicht mit Sicherheit festzustellen; wahrscheinlich wurden sie schon von ROSSMÄSSLER selbst in der einzigen Serie „*dentiens*“ seiner Sammlung [Dalmatien, F. J. SCHMIDT d. SMF 166395/8] vereinigt.

— **remyi** (C. BOETTGER 1949).

1949 *Azeca (Hypnophila) remyi* C. BOETTGER, Arch. Moll., 78 (4/6): 167.

Korsika: Grotta d'i Paladini. P. REMY l., C. BOETTGER d. [Paratypus SMF 62812].

— **zacynthia** (ROTH 1855).

1894 *Ferussacia (Hypnophila) zacynthia*, — KOBELT, Icon., (2) 7: 21 T. 185 F. 1168.

1894 *Ferussacia (Hypnophila) integra*, — KOBELT, Icon., (2) 7: T. 185 F. 1169 [nur die Figur, nicht der Text S. 21 Nr. 1169!].

1908 *A[zeca (Hypnophila)] integra*, — PILSBRY, Man. Conch., (2) 19 (76): T. 47 F. 6 [nur die Figur = Kopie Ic. 1169, nicht der Text S. 301!].

Korfu. BRÖMME l., Slg. KOBELT [Orig. fig. SMF 166393/2].

Bemerkung: KOBELT schreibt bei der Herkunft der von ihm behandelten *integra* MOUSSON 1859 „meine Stücke auf Corfu von BRÖMME gesammelt“, bei

zacynthia ROTH 1855 „mein Exemplar von der letzteren Insel [Corfu]“. Der Beizettel zu den beiden genannten Belegstücken ist doppelseitig beschriftet: auf der Vorderseite: „*zakyntbia* ROTH. BR. Corfu“, auf der Rückseite „*integra* MOUSSON. BRÖMME. Corfu“. Beide Stücke sind *zacynthia* ROTH und völlig identisch mit der Serie *zacynthia* von Corfu der Slg. BRÖMME SMF 56949/3. Belegstücke für *integra* MOUSSON von Corfu sind nicht festzustellen.

Gomphroa WESTERLUND 1902.

— **boissii** (DUPUY 1850).

1959 *Gomphroa boissii*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 144 Abb. 485.

Spanien: Bagá, Prov. Barcelona. Slg. F. HAAS [Orig. fig. SMF 56957].

Cochlicopa RISSO 1826.

— **dauidis** (ANCEY 1882).

1939 *Cochlicopa dauidis*, — YEN, Abh. senckenb. naturf. Ges., 444: 74 T. 6 F. 29.

China (Shensi): Feng-hsien. POTANIN l., Slg. MOELLENDORFF [Orig. fig. SMF 40220].

— **lubrica** (O. F. MÜLLER 1774).

1835 *Achatina lubrica*, — ROSSMÄSSLER, Icon., (1) 1 (1): 88 T. 2 F. 43.

1933 *Cochlicopa lubrica*, — EHRMANN, Tierwelt: 32, 33 T. 1 F. 1, 1a.

1939 *Cochlicopa lubrica*, — YEN, Abh. senckenb. naturf. Ges., 444: 73 T. 6 F. 27.

1959 *Cochlicopa lubrica*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 144, 145 Abb. 486.

Sachsen: Leipzig und Tharand. Slg. ROSSMÄSSLER [SMF 166393 nicht als Orig. Icon. 43 nachzuweisen].

Sachsen: Leipzig, Revier Probstei. Slg. EHRMANN [Orig. 1933 T. 1 F. 1, 1a = SMF 56637/3].

Hessen: Mainufer bei Frankfurt. NOLL l., Slg. KOBELT [Orig. 1959 Abb. 486 = SMF 157912a].

China: Zwischen Li-dshia-pu und Kuating. Slg. MOELLENDORFF [Orig. 1939 T. 6 F. 27 = SMF 40223].

(*collina* MOQUIN-TANDON 1855).

1855 *Bulimus subcylindricus collinus* MOQUIN-TANDON, Hist. nat. Moll. France, 2: 304.

Frankreich: Lyon. MOQUIN-TANDON d., Slg. ROSSMÄSSLER [Syntypen SMF 166504/4].

(*lubricella* PORRO 1838).

1933 *Cochlicopa lubrica exigua*, — EHRMANN, Tierwelt: 33 T. 1 F. 3, 3a.

Fränkische Alb: Schwalbenloch bei Pottenstein. Slg. EHRMANN [Orig. fig. SMF 166386/4].

(*nitens* GALLENSTEIN 1852).

1852 *Achatina nitens* GALLENSTEIN, Jb. naturh. Landesmus. Kärnten, 1: 75.

1933 *Cochlicopa lubrica nitens*, — EHRMANN, Tierwelt: 33 T. 1 F. 2, 2a.

Kärnten: Klagenfurt. M. VON GALLENSTEIN d. 1846, Slg. ROSSMÄSSLER [Syntypen SMF 166385/7].

Sachsen: Bienitzwiese bei Leipzig. Slg. EHRMANN [Orig. fig. SMF 56641/8].

(*repentina* HUDEC 1960).

1960 *Cochlicopa repentina* HUDEC, Práce, Acta Acad. Sci. Čechosl. Basis Brunnensis, 32 (7): 297.

Tschechoslowakien: Močidla im Badeort Mšené—Dolní Pochří. HUDEC l. d. [Paratypen SMF 163935/4].

— **macrostoma** (O. BOETTGER 1874). Taf. 7 Fig. 3.

1874 *Cionella macrostoma* O. BOETTGER, Ber. senckenb. naturf. Ges., 1873/74: 64.

M. Oligozän (Rupel, Schleichsand): Elsheim. Slg. O. BOETTGER [Holotypus SMF 151080 und zwei Bruchstücke].

— **sinensis** (HEUDE 1890).

1939 *Cochlicopa sinensis*, — YEN, Abh. senckenb. naturf. Ges., 444: 74 T. 6 F. 28.

China: Fluß Tung. POTANIN l., Slg. MOELLENDORFF [Orig. fig. SMF 40221/2].

— **subrimata oblonga** WENZ 1919. Taf. 7 Fig. 4.

1877 *Cionella lubricella major* O. BOETTGER, Palaeontogr., 24: 213 [non BOURGUIGNAT 1864].

1919 *Cochlicopa subrimata oblonga* WENZ, Senckenbergiana, 1 (6): 239 [n. nom.].

U. Miozän (Aquitän, Corbicula-Sch.): St. Johann, Rheinhessen. Slg. O. BOETTGER [Lectotypus (WENZ 1919) SMF 151084, Paratypen SMF 151085/23].

— **subrimata perminuta** WENZ 1919. Taf. 7 Fig. 5.

1912 *Cochlicopa lubricella*, — FISCHER & WENZ, N. Jb. Min., 34: 499 [non PORRO 1838].

1916 *Cochlicopa subrimata minima* GOTTSCHICK & WENZ, Nachr. Bl. dtsh. malak. Ges., 48: 73 [n. nom., non SIEMASCHKO 1847].

1919 *Cochlicopa subrimata perminuta* WENZ, Senckenbergiana, 1 (3): 64 [n. nom.].

O. Miozän (Torton, Landschneckenmergel): Frankfurt am Main, Palmengarten. Slg. K. FISCHER [Neotypus ex Paratypus SMF 151088].

Pyramidulidae.

Pyramidula FITZINGER 1833.

— **javana** (MOELLENDORFF 1897). Taf. 7 Fig. 6.

1897 *Patula (Pyramidula) javana* MOELLENDORFF, Nachr. Bl. dtsh. malak. Ges., 29: 65.

1952 *Pyramidula javana*, — VAN BENTHEM JUTTING, Treubia, 21 (2): 352.

W-Java: Mt. Gedeh, 9000'. FRUHSTORFER l., Slg. MOELLENDORFF [Holotypus SMF 42546].

— **rupestris rupestris** (DRAPARNAUD 1801).

1838 *Helix rupestris*, — ROSSMÄSSLER, Icon., (1) 2 (1/2): 38 T. 39 F. 534.

1959 *Pyramidula rupestris*, — ZILCH in WENZ, Hdb. Pal., 6 (2, 1): 145 Abb. 487.

Karnische Alpen: Loibl. Slg. ROSSMÄSSLER [nicht nachzuweisen].

Tirol. Slg. HASHAGEN [Orig. 1959 Abb. 487 = SMF 37484a].

(*dalmatina* CLESSIN 1886).

1886 *Patula rupestris dalmatina* CLESSIN, Malak. Bl., (NF) 9: 51.

Dalmatien: Cettinotal bei Almissa. CLESSIN d., Slg. O. BOETTGER [Synotypen SMF 37719/5].

Pyramidula

— ***rupestris hierosolymitana*** (BOURGUIGNAT 1852)

1877 *Helix hierosolymitana*, — KOBELT, Icon., (1) 5: 93 T. 142 F. 1416.

Palästina. Slg. KOBELT [Orig. fig. SMF 38079].

— ***rupestris salimalii*** I. RENSCH 1955. Taf. 7 Fig. 7.

1955 *Pyramidula rupestris salimalii* I. RENSCH, J. Bombay nat. Hist. Soc., 53 (2): 166.

W-Himalaya: Chakrata-Deoban, ca. 8-10 000' I. RENSCH l. d. [Typus SMF 153491, Paratypen SMF 153494/15].

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Erklärungen zu Tafel 7

Phot. Senckenberg-Museum (E. HAUPT). Vergr. Fig. 1-5 = $10/1$, Fig. 6-7 = $15/1$.

- Fig. 1. *Azeca menkeana* (C. PFEIFFER).
Bad Pyrmont [Lectotypus SMF 56907].
- Fig. 2. *Hypnophila cyclothyra* (O. BOETTGER).
Griechenland: Santameri, Achaia [Lectotypus SMF 166387].
- Fig. 3. *Cochlicopa macrostoma* (O. BOETTGER).
M. Oligozän (Schleichsand): Elsheim [Holotypus SMF 151080].
- Fig. 4. *Cochlicopa subrimata oblonga* WENZ.
U. Miozän (Corbicula-Sch.): St. Johann [Lectotypus SMF 151084].
- Fig. 5. *Cochlicopa subrimata perminuta* WENZ.
O. Miozän (Landschneckenmergel): Frankfurt-Palmengarten [Neotypus SMF 151088].
- Fig. 6. *Pyramidula javana* (MOELLENDORFF).
W-Java: Mt. Gedeh [Holotypus SMF 42546].
- Fig. 7. *Pyramidula rupestris salimalii* I. RENSCH.
W-Himalaya: Chakrata-Deoban [Holotypus SMF 153491].



A. ZILCH: Die Typen und Typoide des Natur-Museums Senckenberg, 27: Mollusca, Pupillacea 1.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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