

# 9. CAENOZOIC AMPHINEURA, GASTROPODA, LAMELLIBRANCHIATA, SCAPHOPODA

BY

I. M. VAN DER VLERK.

## INTRODUCTION.

There was one great drawback to the decision of the commission for editing this jubilee volume in honour of Prof. MARTIN in the form that is here shown. It was namely impossible to call in the help of the most competent person for compiling the chapter on the mollusca. One cannot request a scientist to contribute to the celebration of his own jubilee.

That I finally decided to undertake this work, that ought to have been done by Prof. MARTIN himself, is owing to the fact that I was in a better position to learn the opinions of MARTIN than any other, as keeper of the museum in which nearly all mollusca described by this still active worker are to be found. For this help, though it was given inadvertently, I wish to express my sincere thanks to my much honoured tutor.

In arranging the genera I followed the same system as MARTIN used in his „Unsere Palaeozoologische Kenntnis von Java“. It is almost identical with that given by PAUL FISCHER in his „Manuel de Conchyliologie“, a few changes having been derived from COSSMANN's „Essais de Paléoconchologie“. Thus I have not followed SCHEPMAN, who promoted some sub-genus-names to genus-names. The arrangement of the species of the genera is alphabetic.

The list of species contains several names, that do not actually belong there. With these are meant the names of species, that were determined by the author on insufficient material for the establishment of a new species. The articles of BOETTGER on the fossils of Sumatra and Borneo are examples of this kind. I retained these names, as it is possible that later with the aid of plesiotypes the incomplete description can be completed. I was further of opinion that it would be better to give too much than too little, as it would be easier for the user of the list to cut out the superfluous names than to complete its deficiencies.

In the list we will find several genusnames without a species name. These appertain to material, that was incomplete or badly preserved, but over which the author was yet able to give some details. Here

too the possibility of plesiotypes still being found has led me to include these names.

In the list names of species are also included that MARTIN described but only indicated by a number (*Marginella spec. 1*). These are species, that MARTIN did not name, as he was not sufficiently certain that they do not also occur recently. He was sure, however, that they have not been described as fossils. Of these also I have only included the species of which MARTIN gives some details of the structure. If the author only mentions the fossils, without description or illustration, they have not been included.

For the stratigraphical distribution the terms: „Lower Miocene”, „Pliocene”, etc. have been used. I must emphasize, however, that only the divisions are meant, that bear these names in the Indo-Pacific region. There are as yet not sufficient indications to prove that what is termed „Lower Miocene” here is of the same age as the Lower Miocene strata of Europe. This was the reason that UMBROVE and the author of this article introduced a letter-subdivision for the East-Indian Tertiary (Wetensch. Meded., No. 6). This letter subdivision is based, however, on the distribution of the foraminifera. For many strata the age had already been ascertained by the method of the percentage of fossils that still occur recently, but frequently they contain no foraminifera, or insufficiently described foraminifera, so that it is still impossible to make a correct correlation between the two subdivisions. According to our present knowledge the following table gives the most probable comparison.

Upper Tertiary	h	“Pliocene”	Sondé-beds	Upper-Palembang-beds
				Middle-Palembang-beds
	g	“Upper Miocene”		Lower-Palembang-beds
	f	“Lower Miocene”	Tjilanang-beds	
			Njalindoeng-beds	
	e		W.-Progo-beds	
d	“Oligocene”			
Lower Tertiary	c			
	b	“Eocene”	Nanggoelan-beds	
	a			

It should be noted, that the Upper-, Middle- and Lower-Palembang-beds of Sumatra are based on lithological resemblances. It is still far from certain that what is termed Middle-Palembang-beds in Central Sumatra corresponds in age to what is given the same in Southern Sumatra. In the stratigraphical part of this volume this subject is dealt with more in detail, so that I can refer the reader thither.

## LIST OF SPECIES.

### Class AMPHINEURA.

#### FAM. CHITONIDAE.

*Chiton comptus* Gould. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 54.

### Class GASTROPODA.

#### Order PULMONATA.

#### FAM. HELICIDAE.

*Bulinus citrinus* Brug. — Quart. Java, Bibl. 19, p. 51; recent.  
*Helix rotatoria* v. d. Busch. — Quart. Java, Bibl. 19, p. 50; recent.

#### FAM. AURICULIDAE.

*Auricula auris midae* Linn. — Plioc. N. Sumatra, Bibl. 62, p. 13; recent.  
„ *judea* Linn. — Upp. Mioc. <sup>1)</sup> E. Borneo, Bibl. 71, p. 128; recent.  
*Melampus fasciatus* Desh. — Plioc. Seran, Bibl. 14, p. 110; recent.  
*Scarabus spec.* Martin-Ieke. — Quart. Nias, Bibl. 15, p. 222.

#### FAM. LIMNAEIDAE.

*Bulinus spec. indet.* — Quart. Java, Bibl. 11a, p. 1249.  
*Limnaea rubiginosa* Michel. — Quart. Java, Bibl. 19, p. 50; recent.  
*Planorbis tondanensis* Quoy et Gaim. — Quart. Java, Bibl. 19, p. 50; recent.

#### FAM. PHYSIDAE.

*Physa spec. indet.* — Quart. Java, Bibl. 19, p. 50.

## Order PTEROPODA.

## FAM. CAVOLINIIDAE.

- Cavolinia moluccana* Fischer. — Plioc. Seran, Bibl. 14, p. 109.  
 „ sp. — Plioc. Seran, Bibl. 14, p. 110.

## Order OPISTHOBRANCHIATA.

## FAM. ACTAEONIDAE.

- Actaeon dahanaënsis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 223.  
 „ *flammeus* Gmel. — Plioc. Java, Bibl. 19, p. 46 (prior); recent.  
 „ *javanus* Mart. — Mioc. Java, Bibl. 30, p. 44.  
 „ *reticulatus* Mart. — Mioc. Java, Bibl. 30, p. 43.  
 „ *reussi* Mart. — Mioc. Java, Bibl. 23, p. 79.  
 „ spec. Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 24.

## FAM. TORNATINIDAE.

- Tornatella* (?) spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds)  
 W. Sumatra, Bibl. 80<sup>1</sup>, p. 100.  
*Tornatina* spec. Mart. — Plioc. (Sondé-beds) Java, Bibl. 19, p. 48.

## FAM. SCAPHANDRIDAE.

- Atys beberkiriana* Mart. — Low. Mioc. Java, Bibl. 59, p. 283.  
 „ *naucum* Linn. — Plioc. Java, Bibl. 59, p. 283 and Bibl. 19, p. 46;  
 recent.  
 „ spec. Martin-Icke. — Low. Mioc. (?) Nias, Bibl. 15, p. 224.  
*Bullinella triplicata* Mart. — Low. Mioc. (West-Progo-beds) Java,  
 Bibl. 53, p. 224.  
 „ *vandervlerki* Mart. — Upp. Eoc. (Nanggoelan-beds) Java,  
 Bibl. 63a, p. 3.  
*Roxania cylindrica* Hebl. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 8.  
 Bibl. 19, p. 46 and Bibl. 56, p. 118; Plioc. N. Sumatra, Bibl. 62,  
 p. 13; recent.  
 „ *gracilis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a,  
 p. 3.  
 „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java,  
 Bibl. 52, p. 110.  
 „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java,  
 Bibl. 63a, p. 3.  
 „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds and Njalindoeng-beds) Java, Bibl. 59, p. 447.  
 „ *spolongensis* Mart. — Low. Mioc. (West-Progo-beds) Java,  
 Bibl. 53, p. 224.

- Scaphander elegans* Mart. — Upp. Mioc. Java, Bibl. 23, p. 85.  
 „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 110.  
 „ *javanus* Mart. — Neog. Java, Bibl. 23, p. 85.  
*Talahabia dentifera* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 446 and Bibl. 63, p. 118.

## FAM. BULLIDAE.

- Bulla ampulla* Linn. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 8, Bibl. 19, p. 46 and Bibl. 47, p. 44; Plioc. N. Sumatra, Bibl. 62, p. 13 and 24; recent.  
 „ *crebristriata* H. Woodw. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 114.  
 „ *naucum* Linn. — Plioc. N. Celebes, Bibl. 35, p. 276; Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *reussi* Mart. — Low. Mioc. (West-Progo-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 8.  
*Cylichna botella* Fischer. — Plioc. Seran, Bibl. 14, p. 109.  
 „ *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 108.  
 „ *teschi* Fischer. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 80; Plioc. Seran, Bibl. 14, p. 108.  
 „ *spec.* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 55.

## FAM. RINGICULIDAE.

- Ringicula arctatoides* Mart. — Mioc. Java, Bibl. 23, p. 25; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 42.  
 „ *caron* Hinds. — Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 79; Plioc. Seran, Bibl. 14, p. 107; recent.  
 „ *dijki* Mart. — Mioc. Java, Bibl. 30, p. 46.  
 „ *glabra* Mart. — Plioc. Java, Bibl. 30, p. 44.  
 „ *mammosa* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 4.  
 „ *propinquans* Hinds. — Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 79; recent.  
 „ *pygmaea* Mart. — Low. Mioc. Java, Bibl. 30, p. 47.  
 „ *turrita* Mart. — Upp. Mioc. Java, Bibl. 30, p. 45.  
 „ *spec.* 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 24.  
 „ *spec.* 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 24.  
 „ *spec.* 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 24.  
 „ *spec.* 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 24.

## Order PROSOBRANCHIATA.

## FAM. TEREBRIDAE.

- Terebra acuticostata* Mart. — Upp. Mioc. Java, Bibl. 30, p. 72.  
 „ *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 447.  
 „ *bandongensis* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 10 and Bibl. 47, p. 18 and 44.

- Terebra bicincta* Mart. — Mioc. Java, Bibl. 23, p. 33.
- „ *bifilifera* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 17.
- „ *bisulcata* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 217.
- „ *bomasensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 226; Plioc. N. Sumatra, Bibl. 62, p. 11.
- „ *butaciana* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 284.
- „ *cumingii* Desh. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 9; Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 37; Plioc. Seran, Bibl. 14, p. 87; recent.
- „ *dahanaënsis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 224.
- „ *dijki* Mart. — Plioc. (?) Java, Bibl. 30, p. 74.
- „ *ejecta* Mart. — Upp. Neog. (?) Java, Bibl. 59, p. 287.
- „ *fenestrata* Hinds. — Quart. Celebes, Bibl. 69, p. 154; recent.
- „ *fistularis* Fischer. — Plioc. Seran, Bibl. 14, p. 91.
- „ *herklotsi* Mart. — Upp. Mioc. Java, Bibl. 23, p. 34; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 83.
- „ *hochstetteri* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 35 and Bibl. 47, p. 44; Plioc. N. Sumatra, Bibl. 62, p. 11.
- „ *ickei* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 285.
- „ *indica* Mart. — Mioc. Java, Bibl. 23, p. 33 and Bibl. 63, p. 119; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 36.
- „ *insulindae* Fischer. — Plioc. Seran, Bibl. 14, p. 88.
- „ *javana* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 32 and Bibl. 47, p. 18 and 44; Upp. Mioc. W. Sumatra, Bibl. 72, p. 162.
- „ *jenkinsi* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 30, p. 75 and Bibl. 47, p. 44; Upp. Mioc. W. Sumatra, Bibl. 72, p. 162.
- „ *junghuhni* Mart. — Java (age unknown), Bibl. 59, p. 285.
- „ *maculata* Linn. — Quart. Timor, Bibl. 35, p. 280; recent.
- „ *malayana* Fischer. — Plioc. Seran, Bibl. 14, p. 91.
- „ (?) *martini* Tesch<sup>14</sup>). — Upp. Mioc. or Low. Plioc. Timor, Bibl. 74<sup>1</sup>, p. 38.
- „ *myuriformis* Fischer. — Plioc. Seran, Bibl. 14, p. 89.
- „ *myuros* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 217; recent.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 111.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 284 and Bibl. 47, p. 158.
- „ *polygyrata* Desh. — Quart. Celebes, Bibl. 69, p. 154; recent.
- „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 225.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 111.

- Terebra samarangana* Mart. — Upp. Mioc. and Plioc. (?) Java, Bibl. 30, p. 75; Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- „ *simplicissima* Mart. — Java (age unknown), Bibl. 59, p. 287.
- „ *sindangbaranensis* Mart. — Mioc. Java, Bibl. 59, p. 286.
- „ *smithi* Mart. — Low. Mioc. Java, Bibl. 30, p. 71.
- „ *sokkohensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 225; Plioc. N. Sumatra, Bibl. 62, p. 11 and 21 (mut.).
- „ *strigilata* Linn. — Upp. Mioc. Java, Bibl. 59, p. 10; Plioc. N. Sumatra, Bibl. 62, p. 11 and 21; recent.
- „ *subacuminata* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 231.
- „ *talahabensis* Mart. — Low. Mioc. Java, Bibl. 59, p. 286 and Bibl. 63, p. 119.
- „ *tjilonganensis* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. Java, Bibl. 59, p. 283 and Bibl. 47, p. 158.
- „ *woodwardiana* Mart. — Mioc. Java, Bibl. 30, p. 73; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 38; Plioc. Seran, Bibl. 14, p. 90.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- „ spec. 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- „ spec. 7 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- „ spec. 10 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 11 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 22 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 24 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- „ spec. 25 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.

## FAM. CONIDAE.

- Asthenotoma elberti* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 121.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 8.
- „ *perlonga* Mart. — Mioc. Java, Bibl. 30, p. 93.
- „ *tobleri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 121.
- Bathytoma ornatissima* Mart. — Mioc. (?) Java, Bibl. 30, p. 69.
- „ *herklotsi* Mart. — Upp. Mioc. Java, Bibl. 23, p. 61; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 35; Upp. Mioc. W. Sumatra, Bibl. 72, p. 163.
- Borsonia cossmanni* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 120.
- „ *granifera* H. Woodw. — Mioc. Nias, Bibl. 83, p. 239.
- „ *indica* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 36.
- „ *volzi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 120.
- Conorbis umbrovei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 9.
- Conus achatinus* Chemn. — ? Upp. Mioc. Nias, Bibl. 15, p. 227; Quart. Celebes, Bibl. 69, p. 156; recent.

- Conus acutangulus* Chemn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 30, p. 48 and Bibl. 59, p. 13; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 17; Plioc. Seran, Bibl. 14, p. 105; Plioc. N. Sumatra, Bibl. 62, p. 13; recent.
- „ *affinis* Mart. — Upp. Mioc. Java, Bibl. 23, p. 15.
- „ *alabaster* Reeve. — Quart. Java, Bibl. 30, p. 51; recent.
- „ *arntzenii* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 228.
- „ *aulicus* Linn. — Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 22; recent.
- „ *aulicus* Linn. var. *auratus* Lamk. — Quart. Celebes, Bibl. 69, p. 157; recent.
- „ *canonicus* Brug. — Mioc. Java, Bibl. 23, p. 13; recent.
- „ *capitaneus* Linn. — Quart. Celebes, Bibl. 69, p. 155; recent.
- „ *cheribonensis* Mart. — Plioc. Java, Bibl. 59, p. 24.
- „ *cinereus* Hwass. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 24; Plioc. and Low. Quart. (?) Timor, Bibl. 74<sup>1</sup>, p. 21; recent.
- „ *circumcisis* Born. — Quart. Celebes, Bibl. 69, p. 157; recent.
- „ *decollatus* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. Java, Bibl. 59, p. 23, Bibl. 47, p. 158 and Bibl. 63, p. 120.
- „ *djarianensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 20.
- „ *eburneus* Brug. — Plioc. Timor, Bibl. 30, p. 52 and 307; recent.
- „ *episcopus* Hwass. — Plioc. Seran, Bibl. 14, p. 106; recent.
- „ *everwijni* Mart. — Mioc. Saonek besar, Bibl. 4, p. 674; Upp. Mioc. Java, Bibl. 59, p. 25.
- „ *fasciatus* Mart. — Mioc. Java, Bibl. 30, p. 50; ? Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127.
- „ *fenestratus* Mart. — Upp. Mioc. Java, Bibl. 30, p. 55.
- „ *fennemai* Schepman. — Quart. Celebes, Bibl. 69, p. 156.
- „ *flavidus* Lamk. — Quart. Celebes, Bibl. 69, p. 155; recent.
- „ *gembacanus* Mart. — Mioc. Java, Bibl. 30, p. 49.
- „ *glans* Hwass. — Quart. Celebes, Bibl. 69, p. 157; recent.
- „ *glaucus* Linn. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 22; recent.
- „ *gracilispira* Boettg. — Lower Tertiary (Verbeek's stages  $\alpha$  and  $\beta$ ) S. E. Borneo, Bibl. 1, p. 18; ? Low. Mioc. W. Sumatra, Bibl. 80<sup>2</sup>, p. 25.
- „ *hardi* Mart. — Low. Mioc. (West-Progo-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 18, Bibl. 53, p. 226 and Bibl. 63, p. 119.
- „ *herklotsi* Mart. — Mioc. Java, Bibl. 23, p. 13.
- „ *hochstetteri* Mart. — Mioc. and Plioc. Java, Bibl. 59, p. 22.
- „ *hulshofi* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 290 and Bibl. 47, p. 158.
- „ *ickei* Mart. — Upp. Mioc. Java, Bibl. 59, p. 289.
- „ *insculptus* Kien. — Upp. Mioc. Java, Bibl. 59, p. 14; Plioc. N. Sumatra, Bibl. 62, p. 13; Plioc. Timor, Bibl. 74, p. 19; recent.
- „ *javanus* Mart. — Upp. Mioc. Java, Bibl. 23, p. 11; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105.



- Conus jenkinsi* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 448; Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.
- „ *junghuhni* Mart. — Mioc. Java, Bibl. 23, p. 11; † Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *ligeratus* Linn. — Plioc. Timor, Lit. 74<sup>1</sup>, p. 23; recent.
- „ *lividus* Hwass. — Plioc. and Quart. (†) Timor, Bibl. 74<sup>1</sup>, p. 20; Plioc. Seran, Bibl. 14, p. 106; Quart. Celebes, Bibl. 69, p. 155; recent.
- „ *longurionis* Kien. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 15 and Bibl. 19, p. 46; Plioc. N. Sumatra, Bibl. 62, p. 13; Plioc. Seran, Bibl. 14, p. 105; recent.
- „ *loroisii* Kien. — Low. Mioc. (West-Progo-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 21, Bibl. 53, p. 226 and Bibl. 47, p. 44; Plioc. N. Sumatra, Bibl. 62, p. 13 and 23; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 20; Plioc. S. W. New-Guinea, Bibl. 70, p. 34; recent.
- „ *losariensis* Mart. — Plioc. Java, Bibl. 59, p. 18.
- „ *maäboensis* Martin-Icke. — Low. Mioc. Nias, Bibl. 15, p. 225.
- „ *madurensis* Mart. — Mioc. (†) Madoera, Bibl. 59, p. 288.
- „ *magus* Linn. — Quart. Celebes, Bibl. 69, p. 155 and Bibl. 35, p. 278; recent.
- „ *marmoreus* Linn. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *menengtenganus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 11.
- „ *muriculatus* Sow. — Quart. Celebes, Bibl. 69, p. 154; recent.
- „ *mustelinus* Hwass. — Quart. Celebes, Bibl. 69, p. 154; recent.
- „ *ngavianus* Mart. — Low. Mioc. (West-Progo-beds), Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 23, Bibl. 53, p. 227 and Bibl. 19, p. 46; Plioc. N. Sumatra, Bibl. 62, p. 13 and 23; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 21.
- „ *niasensis* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 226.
- „ *odengensis* Mart. — Low. Mioc. (Rembang-beds), Upp. Mioc. and Plioc. Java, Bibl. 59, p. 448 and Bibl. 63, p. 119; Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.
- „ *ornatissimus* Mart. — Upp. Mioc. and Plioc. (†) Java, Bibl. 59, p. 12; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; Upp. Mioc. (†) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 16; Plioc. Seran, Bibl. 14, p. 104.
- „ *palabuanensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 16 and Bibl. 63, p. 119.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang- and West-Progo-beds) Java, Bibl. 59, p. 288, Bibl. 53, p. 226 and Bibl. 47, p. 158.
- „ *parvulus* Mart. — Upp. Mioc. Java, Bibl. 23, p. 12.
- „ *pauperculus* Sow. — Mioc. Java, Bibl. 23, p. 14; recent.
- „ *planorbis* Born. — Quart. Celebes, Bibl. 69, p. 155; recent.
- „ *priseus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 10.
- „ *querciniformis* Mart. — Mioc. (†) Java, Bibl. 30, p. 53.
- „ *quercinus* Hwass. — Upp. Mioc. Java, Bibl. 59, p. 21 (prior); Quart. Celebes, Bibl. 69, p. 154; recent.

- Conus radiatus* Gmel. — Quart. Celebes, Bibl. 69, p. 156; Quart. Timor, Bibl. 35, p. 280; recent.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 290.
- „ *scalaris* Mart. — Upp. Mioc. Java, Bibl. 23, p. 11.
- „ *sedanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 291.
- „ *sieboldi* Reeve. — Mioc. Java, Bibl. 30, p. 53; recent.
- „ *simoënsis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 292.
- „ *sindangbaranensis* Mart. — Mioc. Java, Bibl. 59, p. 287.
- „ *sinensis* Sow. prior. — Low. Mioc. (Rembang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 13, Bibl. 19, p. 46 and Bibl. 47, p. 158; Plioc. N. Sumatra, Bibl. 62, p. 13; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 18; recent.
- „ *socialis* Mart. — Mioc. Saonek besar, Bibl. 4, p. 674; Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 17 and Bibl. 19, p. 46; Upp. Mioc. (?), Plioc. and Low. Quart. (?) Timor, Bibl. 74<sup>1</sup>, p. 19; Plioc. N. Sumatra, Bibl. 62, p. 13.
- „ *sondeianus* Mart. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; Plioc. (Sondé-beds) Java, Bibl. 59, p. 14; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 18; Plioc. Seran, Bibl. 14, p. 105.
- „ *spolongensis* Mart. — Low. Mioc. (West-Progo-beds) and Rembang-beds) Java, Bibl. 53, p. 228 and Bibl. 63, p. 119.
- „ *striatus* Linn. — Upp. Plioc. or Low. Quart. Timor (?), Bibl. 74<sup>1</sup>, p. 22; recent.
- „ *substriatellus* Woodw. <sup>2</sup>) — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 75; ? Plioc. Java, Bibl. 70, p. 47.
- „ *sulcatus* Hwass. prior. — Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 12 and Bibl. 19, p. 46; Mioc. Saonek besar, Bibl. 4, p. 674; Upp. Mioc. W. Sumatra, Bibl. 72, p. 163; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 16; recent.
- „ *textile* Linn. — Quart. Celebes, Bibl. 69, p. 157; recent.
- „ *tiaratus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 9.
- „ *tjaringinensis* Mart. — Upp. Mioc. W. Sumatra, Bibl. 84, p. 105; Plioc. Java, Bibl. 59, p. 14.
- „ *tjidamarensis* Mart. — Mioc. Java, Bibl. 23, p. 15.
- „ *tjilonganensis* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 59, p. 289.
- „ *traversianus* Smith. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 25; Plioc. N. Sumatra, Bibl. 62, p. 13 and 23; recent.
- „ *vandijki* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 227.
- „ *verriculum* Reeve. — Upp. Mioc. Java, Bibl. 29, p. 226.
- „ *vimineus* Reeve. — Mioc. Saonek besar, Bibl. 4, p. 674; Plioc. (Sondé-beds) Java, Bibl. 59, p. 16 and Bibl. 19, p. 46; Plioc. N. Sumatra, Bibl. 62, p. 13; recent.
- „ *virgo* Linn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 12; Upp. Plioc. or Low. Quart. Timor, Bibl. 74<sup>1</sup>, p. 21; recent.

- Conus* spec. Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 75.  
 „ spec. Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 226.  
 „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. 7 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. 10 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. 15 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 13 and 23.  
 „ spec. Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 106.  
 „ sp. sp. Siemon. — Plioc. Java, Bibl. 70, p. 49; Plioc. S. W. New-Guinea, Bibl. 70, p. 34.  
 „ spec. H. Woodw. — Low. Mioc. Centr. Sumatra, Bibl. 83, p. 213.
- Daphnella anteniana* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 8.  
 „ *celebensis* Schepman. — Plioc. Seran, Bibl. 14, p. 100; recent.  
 „ *fragilissima* Mart. — Mioc. Java, Bibl. 30, p. 70.  
 „ *supracancellata* Schepman. — Plioc. Seran, Bibl. 14, p. 99; recent.
- Defrancia malayana* Fischer. — Plioc. Seran, Bibl. 14, p. 100.
- Drillia aesopus* Schepman. — Plioc. Seran, Bibl. 14, p. 95; recent.  
 „ *auriculifera* Lamk. — Quart. Celebes, Bibl. 69, p. 160; recent.  
 „ *batavia* Mart. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 43 and Bibl. 19, p. 46; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 31; Plioc. Seran, Bibl. 14, p. 96; Quart. Celebes, Bibl. 69, p. 160.  
 „ *bawangana* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 124.  
 „ *bijubata* Reeve. — Quart. Celebes, Bibl. 69, p. 162; recent.  
 „ *boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 122.  
 „ *celebensis* Schepman. — Quart. Celebes, Bibl. 69, p. 162.  
 „ *continuecostata* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 122.  
 „ *digitalis* Reeve. — Quart. Celebes, Bibl. 69, p. 161; recent.  
 „ *eastoni* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 124 and Bibl. 56, p. 118.  
 „ *echinata* Lamk. — Plioc. Timor, Bibl. 30, p. 68 and 307; recent.  
 „ *ermelingi* Mart. — Mioc. Java, Bibl. 30, p. 67 and Bibl. 56, p. 118.  
 „ *flavidula* Lamk. — Upp. Mioc. W. Sumatra, Bibl. 72, p. 163; Plioc. (Sondé-beds) Java, Bibl. 59, p. 41 and Bibl. 19, p. 48 (prior); Plioc. Timor, Bibl. 74<sup>1</sup>, p. 30; Plioc. Seran, Bibl. 14, p. 95; Quart. Celebes, Bibl. 69, p. 159; recent.  
 „ *inexpectata* Mart. — Low. Mioc. Java, Bibl. 59, p. 44; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 33.  
 „ *koperbergi* Schepman. — Quart. Celebes, Bibl. 69, p. 159.  
 „ *losariensis* Mart. — Plioc. Java, Bibl. 59, p. 40; Plioc. N. Sumatra, Bibl. 62, p. 12.  
 „ *madiunensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 296.

- Drillia martini* (Martin) Cossm.<sup>s)</sup> — Mioc. Java, Bibl. 30, p. 68 and Bibl. 7, no. II, p. 84; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 33.
- „ *minahassae* Schepman. — Quart. Celebes, Bibl. 69, p. 161.
- „ *molengraaffi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 230 and Bibl. 63, p. 121.
- „ *nanggulanensis* Mart. — Low. Mioc. (?) Java, Bibl. 59, p. 45.
- „ *neglecta* Mart. — Low. Mioc. Java, Bibl. 59, p. 42 and Bibl. 47, p. 19.
- „ *nodilirata* Smith. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 31; Plioc. Seran, Bibl. 14, p. 95; recent.
- „ *nodosa* Mart. (non Bell.)<sup>s)</sup>
- „ *obliquecostata* Reeve. — Quart. Celebes, Bibl. 69, p. 162; recent.
- „ *palabuanensis* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. Java, Bibl. 59, p. 449; Plioc. N. Sumatra, Bibl. 62, p. 12.
- „ *putillus* Reeve. — Quart. Celebes, Bibl. 69, p. 162; recent.
- „ *reticulata* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 32.
- „ *sangiranensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 295.
- „ *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 97.
- „ *sultani* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 123.
- „ *suturalis* Gray. — Low. Mioc. (Njalindoeng-beds) and Plioc. (?) Java, Bibl. 59, p. 449; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 32; recent.
- „ *tjemoroënsis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 295; Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127.
- „ cf. *trivigiana* Vinassa de Regny. — Eoc. Celebes, Bibl. 10, p. 970.
- „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 5 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 6 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 12 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- Genotia jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 111.
- „ *pseudomelongena* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 9
- Mangilia angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 450.
- „ *belaeformis* Fischer. — Plioc. Seran, Bibl. 14, p. 102.
- „ *cutis-anserina* Fischer. — Plioc. Seran, Bibl. 14, p. 102.
- „ *extensaeformis* Schepman prior *crasselirata* Fischer. — Plioc. Seran, Bibl. 14, p. 101.
- „ *grayi* Lamk. — Quart. Celebes, Bibl. 69, p. 164; recent.
- „ *lamellata* Reeve. — Quart. Celebes, Bibl. 69, p. 163; recent.
- „ *oblivia* Mart. — Plioc. Java, Bibl. 59, p. 46.
- „ *rissoides* Reeve. — Quart. Celebes, Bibl. 69, p. 163; recent.
- „ *roseotincta* Montr. — Quart. Celebes, Bibl. 69, p. 163; recent.
- „ *scalaris* Hinds. — Quart. Celebes, Bibl. 69, p. 163; recent.
- „ *thersites* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 125.

- Mangilia varicifera* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 126.
- Oligotoma epitonica* Fischer. — Plioc. Seran, Bibl. 14, p. 98.
- Pleurotoma albinooides* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. Java, Bibl. 59, p. 448.
- „ *armillata* Reeve. — Quart. Celebes, Bibl. 69, p. 159; recent.
- „ *brevicaudata* Reeve. — Quart. Celebes, Bibl. 69, p. 158; recent.
- „ *carinata* Gray prior *woodwardi* Mart. — Mioc. Saonek besar, Bibl. 4, p. 674; Low. Mioc. (Rembang-beds), Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 37, Bibl. 19, p. 46 and 49 and Bibl. 47, p. 158; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 129; Plioc. N. Sumatra, Bibl. 62, p. 12; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 25; Plioc. Seran, Bibl. 14, p. 92; recent.
- „ *carthausi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 119.
- „ *concinna* Dunker. — Middle Mioc. Nias, Bibl. 83, p. 235; recent.
- „ *djoedjocartae* Mart. — Mioc. Java, Bibl. 59, p. 46, Bibl. 53, p. 231 and Bibl. 70, p. 52; Upp. Mioc. Centr. and W. Sumatra, Bibl. 72, p. 163 and Bibl. 84, p. 127; Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ *djoedjocartae* K. Martin mut. *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 98.
- „ *gemmata* Hinds. — Quart. Celebes, Bibl. 69, p. 158; recent.
- „ *gendinganensis* Mart. — Upp. Mioc. W. Sumatra, Bibl. 72, p. 163; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 129; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 24; Plioc. (Sondé-beds) Java, Bibl. 59, p. 32, Bibl. 19, p. 46 and 49 and Bibl. 63, p. 120; Plioc. N. Sumatra, Bibl. 62, p. 12 and 22; Plioc. S. W. New-Guinea, Bibl. 70, p. 33; Plioc. Seran, Bibl. 14, p. 93.
- „ *grissensis* Mart. — Low. Mioc. Java, Bibl. 30, p. 59.
- „ *hillegondae* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 7.
- „ *ickei* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. Java, Bibl. 59, p. 293 and Bibl. 47, p. 158; ? Upp. Mioc. W. Sumatra, Bibl. 72, p. 163; Plioc. N. Sumatra, Bibl. 62, p. 12 and 22 (mut.).
- „ *imitatrix* Mart. — Low. Mioc. (West-Progo-beds) and Upp. Mioc. Java, Bibl. 53, p. 229 and Bibl. 47, p. 19; Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ *jonesiana* H. Woodw. — Mioc. Nias, Bibl. 83, p. 241.
- „ *junghuhni* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 27.
- „ *karangensis* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. Java, Bibl. 59, p. 448 and Bibl. 63, p. 120; Upp. Mioc. E. Borneo, Bibl. 51, p. 330; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 24.

- Pleurotoma marmorata* Lamk. — Quart. Celebes, Bibl. 69, p. 158; recent.
- „ *martini* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 26.
- „ *molengraaffi* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 28.
- „ *niasensis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 229.
- „ *odengensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 33 and Bibl. 63, p. 120.
- „ *plagiptyx* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 44.
- „ *pseudofascialis* Mart. — Low. Mioc. (?) and Upp. Mioc. Java, Bibl. 59, p. 35.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 118.
- „ *retifera* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 54.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 35 and Bibl. 19, p. 48; Plioc. N. Sumatra, Bibl. 62, p. 12.
- „ *terebra* Basterot. — Middle Mioc. Nias, Bibl. 83, p. 233; recent.
- „ *tigrina* Lamk. — ? Upp. Mioc. W. Sumatra, Bibl. 72, p. 163; Plioc. (Sondé-beds) Java, Bibl. 59, p. 34 (prior); Plioc. Timor, Bibl. 74<sup>1</sup>, p. 24 and Bibl. 30, p. 60 and 307; Plioc. Seran, Bibl. 14, p. 92; Quart. Celebes, Bibl. 69, p. 158; recent.
- „ *timorensis* Tesch. — Upp. Mioc. or Low. Plioc. Timor, Bibl. 74<sup>1</sup>, p. 27.
- „ *undosa* Lamk. — Quart. Celebes, Bibl. 69, p. 158; recent.
- „ *violacea* Hinds. — Quart. Celebes, Bibl. 69, p. 158; recent.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 12 and 22.
- Raphitoma alfurica* Fischer. — Plioc. Seran, Bibl. 14, p. 103.
- „ *embryolirata* Fischer. — Plioc. Seran, Bibl. 14, p. 103.
- Roualtia coronifera* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 53, p. 229 and Bibl. 63, p. 120; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 86.
- Surcula arntzenii* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 113.
- „ *bantamensis* Mart. — Plioc. Java, Bibl. 59, p. 28; Plioc. N. Sumatra, Bibl. 62, p. 12.
- „ *boehmi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 7.
- „ *buxtorfi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 114.
- „ *cornetiformis* Tesch. — Upp. Mioc. or Low. Plioc. Timor, Bibl. 74<sup>1</sup>, p. 29.
- „ *deningeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 113.

- Surcula drilliaeformis* Mart. — Low. Mioc., Upp. Mioc. and Plioc. Java, Bibl. 59, p. 30; Upp. Mioc. (?) and Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 30.
- „ *dijki* Mart. — Upp. Mioc. Java, Bibl. 30, p. 62.
- „ *everwijni* Mart. — Mioc. (?) Java, Bibl. 30, p. 64.
- „ *gembacana* Mart. — Mioc. Java, Bibl. 30, p. 63.
- „ *gerthi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 6.
- „ *hillegondae* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 116.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 5.
- „ *kelirensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 228.
- „ *lepidota* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 117.
- „ *mertoni* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 115.
- „ *mordax* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 116.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 6.
- „ *nodifera* Lamk. prior. — Upp. Mioc., Plioc. and Quart. Java, Bibl. 59, p. 27 and Bibl. 61, p. 14; Upp. Mioc. Nias, Bibl. 15, p. 227; Plioc. N. Sumatra, Bibl. 62, p. 12 and 22; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 28; recent.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 292.
- „ *permodesta* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 118.
- „ *plagiaria* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 5.
- „ *polita* Hinds. — ? Plioc. Seran, Bibl. 14, p. 93.
- „ *pollii* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 228.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 293 and Bibl. 47, p. 158.
- „ *samarangana* Mart. — Mioc. Java, Bibl. 30, p. 63; Plioc. N. Sumatra, Bibl. 62, p. 12.
- „ *smithi* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 30, p. 60.
- „ *sucabumiana* Mart. — Low. Mioc. (Rembang-beds and Njalin-doeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 448; Plioc. N. Sumatra, Bibl. 62, p. 12.
- „ *tjibaliungensis* Mart. — Plioc. Java, Bibl. 59, p. 32 and Bibl. 19, p. 46; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 30.
- „ *wanneri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 118.
- „ *waringinensis* Mart. — Low. Mioc. (?) Nias, Bibl. 15, p. 229; Plioc. Java, Bibl. 59, p. 29.

## FAM. CANCELLARIDAE.

- Bivetia neglecta* Mart. — Java (age unknown), Bibl. 59, p. 47 and 296.
- Cancellaria asperella* Lamk. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 48; Plioc. N. Sumatra, Bibl. 62, p. 11; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 39; recent.
- „ *crispata* Sow. — Quart. Celebes, Bibl. 69, p. 164; recent.
- „ *glabra* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 40.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 128.
- „ *menadensis* Schepman. — Quart. Celebes, Bibl. 69, p. 164.
- „ *prophylactica* Martin-Icke. — Low. Mioc. (?) Nias, Bibl. 15, p. 230.
- „ *scalariformis* Lamk. — Plioc. Timor, Bibl. 30, p. 76 and 307; recent.
- „ *spec. 2* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.
- Merica gerthi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 10.
- „ *reeveana* Cross (= *elegans* Sow.). — Mioc. Java, Bibl. 30, p. 76; recent.
- „ *reticulata* Lamk. — Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 39; recent.
- „ *verbeeki* Mart. — Plioc. Java, Bibl. 59, p. 49.
- Rhomboidestoma oscitans* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 12.
- Trigonostoma crispata* Sow. — Plioc. Java, Bibl. 59, p. 51; recent.
- „ *ficus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 11.
- „ *scalariformis* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 39.
- „ *tjibaliungensis* Mart. — Plioc. Java, Bibl. 59, p. 50.
- Uxia nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 126.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 127.

## FAM. OLIVIDAE.

- Ancilla ampla* Gmel. — Plioc. Java, Bibl. 59, p. 68 and Bibl. 19, p. 47; recent;
- „ *boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 133.
- „ *cinnamomea* Lamk. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 452; Upp. Mioc. E. Borneo, Bibl. 51, p. 330; Plioc. N. Sumatra, Bibl. 62, p. 11; recent.
- „ *decipiens* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 12.
- „ *elegantula* Tesch. — Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>1</sup>, p. 42.
- „ *everwijni* Mart. — Low. Mioc. Java, Bibl. 30, p. 84.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 131.
- „ *javana* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 299.



- Ancilla jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 132.
- „ *junghuhni* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 66, Bibl. 19, p. 46 and Bibl. 47, p. 45.
- „ *martini* Tesch. — Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 42.
- „ *nonna* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 130.
- „ *nuda* Mart. — Mioc. Java, Bibl. 30, p. 83; Upp. Mioc. (?) and Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 43.
- „ *paeteli* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 128.
- „ *papillifera* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 14.
- „ *parvula* Mart. — Low. Mioc. Java, Bibl. 30, p. 84; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 43.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 132.
- „ *pusilla* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 13.
- „ *rasa* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 130.
- „ *rebangensis* Mart. — Low. Mioc. (Rebang-beds) Java, Bibl. 59, p. 298 and Bibl. 47, p. 159.
- „ *seminuda* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 13.
- „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 129.
- „ *vernedei* Sow. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 67; recent.
- „ spec. H. Woodw. — Mioc. Nias, Bibl. 83, p. 228.
- Oliva australis* Duclos. — Low. Mioc. (Rebang- and West-Progo-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 60, Bibl. 53, p. 231 and Bibl. 47, p. 158 (prior); Plioc. S. W. New-Guinea, Bibl. 70, p. 33; recent.
- „ *bulbiformis* Duclos. — Plioc. Java, Bibl. 59, p. 53; recent.
- „ *carneola* Gmel. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 41; recent.
- „ *funeralis* Lamk. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 52; Plioc. N. Sumatra, Bibl. 62, p. 11 and 21; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 40; Plioc. Seran, Bibl. 14, p. 86; recent.
- „ *ickei* Mart. — Java (age unknown), Bibl. 59, p. 296.
- „ *ispidula* Linn. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 58; Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127; Plioc. N. Sumatra, Bibl. 62, p. 11; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 41; recent.
- „ *maura* Lamk. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 23, p. 15 and Bibl. 47, p. 45; recent.

- Oliva mitrata* Mart. — Low. Mioc. (Njalindoeng-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 452.
- „ *mustelina* Lamk. — Mioc. Nias, Bibl. 83, p. 226; recent.
- „ *pseudoaustralis* H. Woodw. — Mioc. Nias, Bibl. 83, p. 227.
- „ *pupaeformis* H. Woodw. — Mioc. Nias, Bibl. 83, p. 227.
- „ *rufula* Duclos. — Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 56; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 41; Plioc. Seran, Bibl. 14, p. 87; recent.
- „ *rufula* Duclos prior *djoedjocartae* Mart. — Upp. Mioc. Java, Bibl. 59, p. 58; Upp. Mioc. W. Sumatra, Bibl. 72, p. 162.
- „ *rufula* Duclos prior *junghuhni* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 58 and Bibl. 19, p. 46 and 49.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 54 and Bibl. 19, p. 49.
- „ *textilina* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *tjaringinensis* Mart. — Plioc. Java, Bibl. 59, p. 56.
- „ *tjidamarensis* Mart. — Mioc. Java, Bibl. 23, p. 18.
- „ *tricincta* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 55 and Bibl. 19, p. 49.
- Olivancillaria acuminata* Lamk. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 63; Plioc. N. Sumatra, Bibl. 62, p. 11; recent.
- „ *cheribonensis* Mart. — Plioc. Java, Bibl. 59, p. 64; Bibl. 47, p. 163 and Bibl. 61, p. 14.
- „ *gibbosa* Born. prior *jenkinsi* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 65 and Bibl. 47, p. 45.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 297.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 297.
- „ *subulata* Lamk. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 61 and Bibl. 70, p. 40 and 51; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 85 and Bibl. 84, p. 105; Plioc. N. Sumatra, Bibl. 62, p. 11; recent.
- „ *subulata* Lamk. prior *odengensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 62.
- Olivella dijki* Mart. — Upp. Mioc. Java, Bibl. 30, p. 80.
- „ *javana* Mart. — Upp. Mioc. Java, Bibl. 23, p. 19.

## FAM. HARPIDAE.

- Harpa conoidalis* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 41; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; recent.
- „ *minor* Lamk. — Quart. Celebes, Bibl. 69, p. 164; recent.
- „ *muticaeformis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 231.

## FAM. MARGINELLIDAE.

- Marginella* *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 452.
- „ *beberkiriana* Mart. — Low. Mioc. Java, Bibl. 59, p. 300.
- „ *dactylus* Lamk. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 71, Bibl. 19, p. 47 and Bibl. 61, p. 4 and 13.
- „ *deningeri* Fischer. — Plioc. Seran, Bibl. 14, p. 83.
- „ *dijki* Mart. — Low. Mioc. Java, Bibl. 59, p. 301.
- „ *grissensis* Mart. — Low. Mioc. Java, Bibl. 30, p. 95.
- „ *ickei* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 232.
- „ *nanggulanensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 232.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 300.
- „ *quinqueplicata* Lamk. — Plioc. Java, Bibl. 47, p. 164 and Bibl. 61, p. 4 and 13; recent.
- „ *quinqueplicata* Lamk. *prior minor* Mart. — Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds), Plioc. (Sondé-beds) and Quart. Java, Bibl. 59, p. 70, Bibl. 19, p. 47 and 49 and Bibl. 61, p. 4 and 13; Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 299.
- „ *sangiranensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 301.
- „ *simplicissima* Mart. — Mioc. Java, Bibl. 23, p. 24.
- „ *tambacana* Mart. — Upp. Mioc. Java, Bibl. 30, p. 95.
- „ *spec. 1* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *spec. 2* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- Persicula* *reussi* Mart. — Mioc. Java, Bibl. 23, p. 25.

## FAM. VOLUTIDAE.

- Lyria* *edwardsi* d'Arch. — Low. Mioc. (Rembang-, West-Progo- and Njalindoeng-beds) Java, Bibl. 53, p. 233 and Bibl. 63, p. 121.
- „ *ickei* Mart. — Upp. Mioc. Java, Bibl. 59, p. 302.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 16.
- „ *varicosa* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 16.
- Pseudolyria* *ventricola* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 17.
- Voluta* *barrandei* Desh. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 19.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 73.
- „ *junghuhni* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 94.
- „ *monocoronata* Fischer. — Plioc. Seran, Bibl. 14, p. 86.
- „ *pumila* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 15.

- Voluta scapha* Gmel. — Quart. Biliton, Bibl. 26, p. 20; recent.
- „ *scapha* Gmel. prior *ponderosa* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 72 and 301, Bibl. 19, p. 47, Bibl. 47, p. 164 and Bibl. 61, p. 4 and 14.
- „ *tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 302; ? Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *vespertilio* Linn. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 27, Bibl. 59, p. 72, Bibl. 47, p. 19 and 45; recent.
- „ *vespertilio* Linn. prior *pellisser pentis* Lamk. — Quart. Celebes, Bibl. 69, p. 165; recent.
- „ spec. Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 19.
- Volutilithes celebesensis* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 986 and Bibl. 55.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 134.
- „ *ptychochilus* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 135.
- Yetus* spec. indet. — Plioc. Java, Bibl. 19, p. 47.

## FAM. MITRIDAE.

- Conomitra vandervlerki* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 18.
- Mitra adusta* Lamk. (?). — Plioc. (Sondé-beds) Java, Bibl. 59, p. 75 Plioc. or Quart. Timor, Bibl. 74<sup>1</sup>, p. 43; recent.
- „ *aequiplicata* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$  and  $\beta$ ) S. E. Borneo, Bibl. 1, p. 20.
- „ *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 453.
- „ *arntzenii* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 236.
- „ *aurantia* Gmel. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *bomasensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 235.
- „ *circula* Kiener. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 77; recent.
- „ *columbellaeformis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 18.
- „ *cucumerina* Lamk. — ? Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 87; Quart. Celebes, Bibl. 69, p. 166; recent.
- „ *filaris* Linn. — Quart. Celebes, Bibl. 69, p. 165; recent.
- „ *flammea* Quoy. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 76 and Bibl. 19, p. 47; Upp. Mioc. W. Sumatra, Bibl. 72, p. 162; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 129; Upp. Mioc. Nias, Bibl. 15, p. 230; Plioc. N. Sumatra, Bibl. 62, p. 10; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 45 and Bibl. 30, p. 85 and 307; Plioc. Seran. Bibl. 14, p. 83; recent.

- Mitra granatinaeformis* Mart. — Mioc. Java, Bibl. 30, p. 86; Plioc. N. Sumatra, Bibl. 62, p. 10.
- „ *grooti* Mart. — Upp. Mioc. Java, Bibl. 29, p. 229 and Bibl. 56, p. 118.
- „ *interlirata* Reeve. — Quart. Celebes, Bibl. 69, p. 166; recent.
- „ *junghuhni* Mart. — Upp. Mioc. Java, Bibl. 23, p. 27; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 44.
- „ *kannegieteri* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 231.
- „ *kelirensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 236.
- „ *molengraaffi* Mart. — Low Mioc. (West-Progo-beds) Java, Bibl. 53, p. 234.
- „ *muriculata* Lamk. — Quart. Celebes, Bibl. 69, p. 166; recent.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 304; ? Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127.
- „ *rotundilirata* Reeve. — Quart. Celebes, Bibl. 69, p. 166.
- „ *sedanensis* Mart. — Low. Mioc. (Rembang-, West-Progo- and Njalindoeng-beds) Java, Bibl. 59, p. 303, Bibl. 53, p. 234, Bibl. 47, p. 159 and Bibl. 63, p. 121; Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127.
- „ *semicineta* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 18.
- „ *sokkohensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 237.
- „ *sphaerulata* Martijn. — Plioc. Java, Bibl. 59, p. 75 and Bibl. 63, p. 121; Plioc. N. Sumatra, Bibl. 62, p. 10; recent.
- „ *sucabumiana* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 452; Plioc. N. Sumatra, Bibl. 62, p. 10 and 20 (mut.).
- „ *sulcata* Menke. — Quart. Celebes, Bibl. 69, p. 166; recent.
- „ *tabanula* Lamk. — Plioc. (?) Java, Bibl. 59, p. 75; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 44; recent.
- „ *spec. 3* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *spec. 7* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *sp. sp.* Schepman. — Quart. Celebes, Bibl. 69, p. 165 and 166.
- Mitrolumna rustica* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 19.
- Turricula alfurica* Fischer. — Plioc. Seran, Bibl. 14, p. 85.
- „ *amanda* Reeve. — Quart. Celebes, Bibl. 69, p. 170; recent.
- „ *antonelli* Dohrn. — Quart. Celebes, Bibl. 69, p. 169; recent.
- „ *antoni* Küster. — Quart. Celebes, Bibl. 69, p. 170; recent.
- „ *aureolata* (Swains Mss.) Reeve. — Quart. Celebes, Bibl. 69, p. 170; recent.
- „ *bataviana* Mart. — Upp. Mioc. Nias, Bibl. 15, p. 232; Plioc. (Sondé-beds) Java, Bibl. 59, p. 78, Bibl. 19, p. 47 and Bibl. 47, p. 164; Plioc. N. Sumatra, Bibl. 62, p. 10 and 20; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 47.
- „ *bucciniformis* Mart. — Upp. Mioc. Java, Bibl. 23, p. 28.
- „ *caffra* Linn. — Plioc. or Quart. Timor, Bibl. 74<sup>1</sup>, p. 47; recent.

- Turricula cheribonensis* Mart. — Low. Mioc. (West-Progo-beds) and Plioc. Java, Bibl. 53, p. 239.
- „ *corallina* Reeve. — Quart. Celebes, Bibl. 69, p. 168; recent.
- „ *costellaris* Lamk. — Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>1</sup>, p. 50; Plioc. (Sondé-beds) Java, Bibl. 59, p. 80; recent.
- „ *crebrilirata* Reeve. — Plioc. and Quart. Java, Bibl. 59, p. 82; recent.
- „ *crocata* Lamk. — Quart. Celebes, Bibl. 69, p. 170; recent.
- „ *curvilirata* Sow. — Quart. Celebes, Bibl. 69, p. 169; recent.
- „ *dahanaënsis* Martin-Icke<sup>4</sup>). — Upp. Mioc. Nias, Bibl. 15, p. 232.
- „ *deningeri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 238.
- „ *dijki* Mart. — Mioc. Java, Bibl. 59, p. 306.
- „ *exquisita* Sow. — Quart. Celebes, Bibl. 69, p. 169; recent.
- „ *funerea* Reeve. — Plioc. Timor (?), Bibl. 74<sup>1</sup>, p. 50; recent.
- „ *gembacana* Mart. — Low. Mioc. (Rembang- and Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 454 and Bibl. 63, p. 121; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 49; Plioc. Seran, Bibl. 14, p. 84; Quart. Celebes, Bibl. 69, p. 169.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 306 and Bibl. 19, p. 49; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 46.
- „ *ickei* Mart. — Low. Mioc. Java, Bibl. 59, p. 305 and Bibl. 47, p. 19.
- „ *interstriata* Sow. — Quart. Celebes, Bibl. 69, p. 168; recent.
- „ *javana* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 80 and Bibl. 47, p. 45; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 48.
- „ *jenkinsi* Mart. — Mioc. Java, Bibl. 23, p. 29.
- „ *jonkeri* Mart. — Upp. Mioc. Nias, Bibl. 15, p. 231; Plioc. Java, Bibl. 59, p. 78 and Bibl. 19, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 11 and 20; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 46 and Bibl. 30, p. 90 and 307.
- „ *lyrata* Lamk. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 79; Plioc. Seran, Bibl. 14, p. 84; Quart. Celebes, Bibl. 69, p. 167; recent.
- „ *martini* Schepman<sup>4</sup>). — Quart. Celebes, Bibl. 69, p. 169.
- „ *melongena* Lamk. — Quart. Celebes, Bibl. 69, p. 167; recent.
- „ *militaris* Reeve. — Quart. Celebes, Bibl. 69, p. 170; recent.
- „ *minahassae* Schepman. — Quart. Celebes, Bibl. 69, p. 167.
- „ *niasensis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 233.
- „ *obeliscus* Reeve. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 82; Plioc. N. Sumatra, Bibl. 62, p. 11 and 20; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 49; Plioc. Seran, Bibl. 14, p. 85; Quart. Celebes, Bibl. 69, p. 168; recent.
- „ *plicaria* Linn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 80 and Bibl. 19, p. 47; recent.
- „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 238.

- Turricula rajaënsis* Mart. — Plioc. (?) Java, Bibl. 59, p. 83.  
 „ *rectilateralis* Sow. — Quart. Celebes, Bibl. 69, p. 169; recent.  
 „ *sanguisuga* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 51 and Bibl. 30, p. 91 and 307; Java (age unknown), Bibl. 30, p. 91; recent.  
 „ *stigmataria* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 51; recent.  
 „ *taeniataeformis* Mart. — Plioc. Java, Bibl. 30, p. 87.  
 „ *tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 305.  
 „ *venustula* Reeve. — Quart. Celebes, Bibl. 69, p. 170; recent.  
 „ *vittata* Swainson. — Plioc. or Quart. Timor, Bibl. 74<sup>1</sup>, p. 47; recent.  
 „ *vulpecula* Linn. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 45; recent.  
 „ *wanneri* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 48.  
 „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.  
 „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.  
 „ spec. 8 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 11 and 21.  
 „ spec. Schepman. — Quart. Celebes, Bibl. 69, p. 168.

## FAM. FASCIOLARIIDAE.

- Clavilithes fennemai* Mart. — Low. Mioc. Java, Bibl. 59, p. 454 and Bibl. 63, p. 122.  
 „ *sangiranensis* Mart. <sup>5)</sup>  
 „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 137.  
 „ *tjaringinensis* Mart. — Plioc. Java, Bibl. 59, p. 87.  
 „ *tjidamarensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 86.  
 „ *verbeeki* Mart. — Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 85, Bibl. 47, p. 19 and 45; Plioc. N. Sumatra, Bibl. 62, p. 10 and 19.  
 „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 19.  
*Euthriofusus wanneri* Fischer. — Plioc. Seran, Bibl. 14, p. 82.  
*Fasciolaria* spec. Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 19.  
*Fusus angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 454.  
 „ *djiki* Mart. — Mioc. Java, Bibl. 30, p. 102.  
 „ *gembacanus* Mart. — Mioc. Java, Bibl. 30, p. 103.  
 „ *ickeae* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 20.  
 „ *incilifer* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 20.  
 „ *menengtenganus* Mart. — Plioc. Java, Bibl. 59, p. 84; Plioc. N. Sumatra, Bibl. 62, p. 10.  
 „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 136.  
 „ *timorensis* Mart. — Plioc. Timor, Bibl. 30, p. 101 and 307.  
*Lathyrus acaulis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 89.  
 „ *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 456.

- Lathyrus bandongensis* Mart. — Upp. Mioc. (Tjilang-beds) Java, Bibl. 30, p. 109.
- „ *beberianus* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 456.
- „ *borneënsis* Krause. — Eoc. Centr. Borneo, Bibl. 17, p. 208.
- „ *caledonicus* Petit. — Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *craticulatus* Linn. — Quart. Celebes, Bibl. 69, p. 171; recent.
- „ *compactilis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 22.
- „ *fasciolariaeformis* Mart. — Low. Mioc. (West-Progo-beds) and Upp. Mioc. Java, Bibl. 59, p. 88 and Bibl. 53, p. 239.
- „ *cf. fastigium* Reeve. — Quart. Celebes, Bibl. 69, p. 171; recent.
- „ *fusiformi* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 55.
- „ *granifer* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 21.
- „ *incarnatus* Desh. — Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *junghuhi* Mart. — Mioc. Java, Bibl. 23, p. 59 and Bibl. 59, p. 88.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 138.
- „ *lancea* Gmel. — Quart. Celebes, Bibl. 69, p. 171; recent.
- „ *losariensis* Mart. — Upp. Mioc. S. and Centr. Sumatra, Bibl. 84, p. 105 and 127; Plioc. Java, Bibl. 59, p. 89.
- „ *madiunensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 88.
- „ *merangianus* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 457.
- „ *nangulanus* Mart. — Upp. Mioc. (Tjilang-beds) Java, Bibl. 30, p. 107 and Bibl. 47, p. 45.
- „ *njalindunganensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 455 and Bibl. 63, p. 122.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 137.
- „ *scabrosus* Reeve. — Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 308.
- „ *turritus* Gmel. — Quart. Celebes, Bibl. 69, p. 171; recent.
- „ *wagneri* Anton. — Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *woodwardianus* Mart. — Java (age unknown), Bibl. 30, p. 108.

## FAM. TURBINELLIDAE.

- Cynodonta cornigera* Lamk. — Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *spec.* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilang-beds) Java, Bibl. 47, p. 19 and 45.
- Melongena brevispina* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 22.
- „ *bucephala* Lamk. — Upp. Mioc. (Tjilang-beds) Java, Bibl. 59, p. 91; recent.
- „ *cochlidium* Linn. — Low. Mioc. (Tjilang-beds) Java, Bibl. 59, p. 94 and Bibl. 47, p. 19 and 45; recent.



- Melongena gigas* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 90 and Bibl. 47, p. 45 and 200.
- „ *gigas* Mart. mut. *coronifera* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *ickei* Mart. — Upp. Mioc. Java, Bibl. 59, p. 309.
- „ *junghuhni* Mart. — Low. Mioc. (West-Progo- and Njalindoeng-beds) and Upp. Mioc. Java, Bibl. 59, p. 94, Bibl. 53, p. 240, Bibl. 47, p. 19 and Bibl. 63, p. 122.
- „ *madjalengkensis* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 92; Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *perponderosa* Mart. — Upp. Mioc. Java, Bibl. 59, p. 92 and Bibl. 56, p. 119.
- „ *pugilina* Born. — Plioc. and Quart. Java, Bibl. 30, p. 99, Bibl. 59, p. 90 and Bibl. 47, p. 164; recent.
- „ *rex* Mart. — Neog. Java, Bibl. 59, p. 93 and Bibl. 70, p. 40.
- „ *spec. 1* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *spec. 3* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 20.
- „ *spec. Siemon*. — Mioc. Java, Bibl. 70, p. 43.
- Semifusus blosvillei* Desh. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 52; recent.
- „ *ternatanus* Gmel. — Plioc. and Quart. Java, Bibl. 30, p. 99; Quart. Celebes, Bibl. 69, p. 172; recent.
- „ *timorensis* Mart. — Plioc. Java, Bibl. 59, p. 95; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 52.
- Strepsidura nanggalanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 139.
- „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 23.
- Turbinella subcostata* H. Woodw. — Mioc. Nias, Bibl. 83, p. 238.
- „ *spec.* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 19.
- Vasum ceramicum* Linn. prior. — Low Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 457.
- „ *turbinellus* Linn. — Upper Tertiary or Quaternary Rendjoewa (W. of Timor), Bibl. 4, p. 672; recent.

## FAM. CHRYSODOMIDAE.

- Euthria jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 142.
- Siphonalia bantamensis* Mart. — Plioc. Java, Bibl. 59, p. 97.
- „ *dentifera* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 96.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 140.
- „ *njalindungensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 458.
- „ *paradoxa* Jenk. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 47, p. 20, 46 and 165.
- „ *paradoxa* Jenk. var. *crassicostata* Mart. — Plioc. Java, Bibl. 61, p. 4 and 12.

- Siphonalia paradoxa* Jenk. prior. *multicostata* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 63, p. 122.  
 „ *spiracuta* Fischer. — Plioc. Seran, Bibl. 14, p. 81.  
 „ *tjibaliungensis* Mart. — Plioc. Java, Bibl. 59, p. 96.  
 „ *varicosa* Chemn. — Plioc. Timor (?), Bibl. 74, p. 53; Quart. Java, Bibl. 30, p. 101 and Bibl. 59, p. 95; recent.

## FAM. BUCCINIDAE.

- Cominella javana* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 58, Bibl. 59, p. 88, Bibl. 47, p. 45, Bibl. 56, p. 118 and Bibl. 63, p. 123.  
 „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 23.  
 „ *nassaeiformis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 24.  
 „ *sangiranensis* Mart. \*) — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 307, Bibl. 47, p. 164 and Bibl. 65<sup>2</sup>, p. 199.  
*Cyllene angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 459.  
 „ *smithi* Mart. — Upp. Mioc. Java, Bibl. 30, p. 125.  
*Dipsaccus canaliculatus* Schum. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 101 and Bibl. 70, p. 52 and 54; Plioc. N. Sumatra, Bibl. 62, p. 9 and 19; recent.  
 „ *canaliculatus* Schum. prior. *valentiana* Swains. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 40.  
 „ *gracilis* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 103, Bibl. 47, p. 45 and 165 and Bibl. 61, p. 4 and 11.  
 „ *pangkaënsis* Mart. — Low. Mioc., Upp. Mioc. and Plioc. Java, Bibl. 59, p. 102 and Bibl. 47, p. 20.  
*Engina astricta* Reeve. — Quart. Celebes, Bibl. 69, p. 173; recent.  
 „ *contracta* Reeve. — Quart. Celebes, Bibl. 69, p. 173 (prior); recent.  
 „ *pulchra* Reeve. — Quart. Celebes, Bibl. 69, p. 173; recent.  
 „ *recurva* Reeve. — Quart. Celebes, Bibl. 69, p. 173; recent.  
*Metula hindsii* H. et A. Ad. — Upp. Mioc. Java, Bibl. 30, p. 106; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 53; Plioc. Seran, Bibl. 14, p. 81; recent.  
 „ *boettgeri* Mart. — Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127; Plioc. (Sondé-beds) Java, Bibl. 59, p. 310; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 54.  
 „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 10 and 19.  
*Phos acuminatus* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 311, Bibl. 47, p. 45 and Bibl. 63, p. 123; Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>1</sup>, p. 56; Plioc. N. Sumatra, Bibl. 62, p. 9.  
 „ *borneënsis* Sow. — Mioc. Nias, Bibl. 83, p. 236; recent.  
 „ *cuspidatus* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 37.

- Phos dijki Mart. — Mioc. Java, Bibl. 30, p. 128; Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>1</sup>, p. 56.
- „ nodulosecostatus Fischer. — Plioc. Seran, Bibl. 14, p. 70.
- „ roseatus Hinds. — Upp. Mioc. W. Sumatra, Bibl. 72, p. 162; Plioc. Java, Bibl. 59, p. 98; Plioc. N. Sumatra, Bibl. 62, p. 9; recent.
- „ seranus Fischer. — Plioc. Seran, Bibl. 14, p. 69.
- „ subplicatus H. Woodw. — Mioc. Nias, Bibl. 83, p. 237.
- „ woodwardianus Mart. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 98 and Bibl. 19, p. 47.
- „ spec. 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 9 and 18.
- Pisania gracilis Reeve. — Quart. Celebes, Bibl. 69, p. 173; recent.
- „ subdiscolor H. Woodw. — Mioc. Nias, Bibl. 83, p. 238.
- „ spec. Schepman. — Quart. Celebes, Bibl. 69, p. 173; recent.
- Tritonidea angsanana Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 460.
- „ balteata Reeve. — Quart. Java, Bibl. 59, p. 99; recent.
- „ curta Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 26.
- „ densestriata Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 25.
- „ dubia Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 205 and Bibl. 47, p. 45.
- „ egregia Reeve. — Quart. Celebes, Bibl. 69, p. 173; recent.
- „ everwijni Mart. — Upp. Mioc. Java, Bibl. 59, p. 309.
- „ fumosa Dillw. — Mioc. Saonek besar, Bibl. 4, p. 674; Quart. Celebes, Bibl. 69, p. 173; recent.
- „ fusiformis Mart. — Upp. Mioc. E. Borneo, Bibl. 51, p. 330; Java (age unknown), Bibl. 29, p. 206 and Bibl. 59, p. 99.
- „ ickei Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 26.
- „ luliana Mart. — Upp. Mioc. Java, Bibl. 30, p. 105; N. Sumatra, Bibl. 62, p. 9; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 55, Bibl. 30, p. 105 and 307 and Bibl. 35, p. 279.
- „ njalindungensis Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 460.
- „ pengaronensis Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 16.
- „ proteus Reeve. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 100 and Bibl. 47, p. 20; recent.
- „ sondeiana Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 100 and Bibl. 19, p. 47.
- „ ventriosa Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 30, p. 105 and Bibl. 47, p. 20 and 45; Plioc. N. Sumatra, Bibl. 62, p. 9 and 18.
- „ zwierzycii Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 25.

## FAM. NASSIDAE.

- Dorsanum javanum* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 27.
- „ *tjidamarense* Mart. — Mioc. and Plioc. Java, Bibl. 59, p. 117.
- Nassa alfurica* Fischer. — Plioc. Seran, Bibl. 14, p. 73.
- „ *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 461.
- „ *arcularia* Linn. — Plioc. Seran, Bibl. 14, p. 70; recent.
- „ *beberkiriana* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 461.
- „ *canaliculata* Lamk. <sup>o</sup> — Upp. Mioc. Nias, Bibl. 15, p. 234; Plioc. Java, Bibl. 30, p. 120; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 59 and Bibl. 30, p. 119; Plioc. Seran, Bibl. 14, p. 76; Quart. Celebes, Bibl. 69, p. 174; recent.
- „ *celebensis* Schepman. — Quart. Celebes, Bibl. 69, p. 176.
- „ *concinna* Powis. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 61; Quart. Java, Bibl. 59, p. 114; Quart. Celebes, Bibl. 69, p. 176; recent.
- „ *coronata* Brug. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 105 and Bibl. 19, p. 49 (prior); recent.
- „ *crenulata* Brug. — Upp. Mioc. Nias, Bibl. 15, p. 235; Plioc. Seran, Bibl. 14, p. 73; Quart. S. Celebes, Bibl. 35, p. 278; recent.
- „ *dahanaënsis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 235.
- „ *dijki* Mart. — Low. Mioc. Java, Bibl. 59, p. 109.
- „ *extinctelirata* Fischer. — Plioc. Seran, Bibl. 14, p. 76.
- „ *fufana* Fischer. — Plioc. Seran, Bibl. 14, p. 71.
- „ *gemmulata* Lamk. — Plioc. Java, Bibl. 59, p. 106; Plioc. N. Sumatra, Bibl. 62, p. 9; Plioc. Seran, Bibl. 74, p. 71; recent.
- „ *glans* Linn. — Quart. Celebes, Bibl. 69, p. 174; recent.
- „ *globosa* Quoy et Gaimard. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 58; recent.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 143.
- „ *infraevis* Fischer. — Plioc. Seran, Bibl. 14, p. 74.
- „ *jonkeri* Mart. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 57 and Bibl. 30, p. 123 and 308.
- „ *junghuhni* Mart. — Java (age unknown), Bibl. 59, p. 115.
- „ *kieneri* Desh. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 107 and Bibl. 19, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 9; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 60; Plioc. S. W. New-Guinea, Bibl. 70, p. 32; recent.
- „ *leptospira* Ads. — Quart. Java, Bibl. 59, p. 105; recent.
- „ *livescens* Phil. — Quart. Celebes, Bibl. 69, p. 174; recent.
- „ *macrocephala* Schepman. — Plioc. Seran, Bibl. 14, p. 72; recent.
- „ *madiunensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 114; Plioc. N. Sumatra, Bibl. 62, p. 9.
- „ *multiplicata* Schepman. — Quart. Celebes, Bibl. 69, p. 175.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 143.

- Nassa ngawiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 107; Plioc. Seran, Bibl. 14, p. 72.
- „ *nodifera* Powis. — Plioc. Java, Bibl. 59, p. 115; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 57 (prior); recent.
- „ *olivacea* Brug. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 60, Bibl. 30, p. 118 and 307 and Bibl. 35, p. 279.
- „ *ovum* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 108, Bibl. 47, p. 20 and 45, Bibl. 56, p. 119 and Bibl. 70, p. 54; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 61 and Bibl. 30, p. 121 and 307.
- „ *picta* Dkr. — Quart. Java, Bibl. 59, p. 112; recent.
- „ *punctata* Adams. — Quart. Celebes, Bibl. 69, p. 177 (prior); recent.
- „ *rajaënsis* Mart. — Plioc. Java, Bibl. 59, p. 106.
- „ *reussi* Mart. — Mioc. Java, Bibl. 23, p. 36.
- „ *sertula* A. Adams. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 113 (prior); recent.
- „ *sinusigera* Adams. — Quart. Celebes, Bibl. 69, p. 175; recent.
- „ *siquijorensis* Ads.<sup>9</sup>) — Plioc. and Quart. Java, Bibl. 59, p. 109, Bibl. 47, p. 166 and Bibl. 56, p. 119; Plioc. N. Sumatra, Bibl. 62, p. 9; Plioc. N. E. Celebes, Bibl. 35, p. 276; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 59, Bibl. 4, p. 669, Bibl. 35, p. 279 and Bibl. 30, p. 118 and 307; Plioc. Seran, Bibl. 14, p. 75; recent.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 112.
- „ *subspinoso* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 56 and Bibl. 30, p. 123 and 308; recent.
- „ *stolata* Gm. — Plioc. N. Sumatra, Bibl. 62, p. 9; Quart. Java, Bibl. 59, p. 116; recent.
- „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 462.
- „ *tambacana* Mart. — Upp. Mioc. Java, Bibl. 30, p. 124.
- „ *thersites* Brug. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 111 and Bibl. 19, p. 49; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 58 and Bibl. 30, p. 122 and 307; recent.
- „ *varicosecostata* Fischer. — Plioc. Seran, Bibl. 14, p. 77.
- „ *verbeeki* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 110, Bibl. 19, p. 47 and 49, Bibl. 61, p. 4 and 10 and Bibl. 70, p. 40; Plioc. N. Sumatra, Bibl. 64, p. 9 and 18; Plioc. Seran, Bibl. 14, p. 76; Quart. Celebes, Bibl. 69, p. 174.
- „ *spec. 6* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 9 and 19.
- „ *spec. 12* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 9 and 18.
- „ *spec. Schepman*. — Quart. Celebes, Bibl. 69, p. 177.

## FAM. COLUMBELLIDAE.

- Aesopus cumingii* Reeve. — Quart. Celebes, Bibl. 69, p. 178; recent.
- Columbella angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 462.
- „ *bandongensis* Mart. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 118, Bibl. 19, p. 47 and Bibl. 47, p. 20 and 46.

- Columbella coniformis* Mart. — Mioc. Java, Bibl. 30, p. 117.
- „ *conigera* Mart. — Mioc. Java, Bibl. 30, p. 103 and Bibl. 59, p. 118.
- „ *alfurica* Fischer. — Plioc. Seran, Bibl. 14, p. 68.
- „ *conspersa* Gaskoin var. *brevis* Schepman. — Plioc. Seran, Bibl. 14, p. 68; recent.
- „ *dijki* Mart. — Mioc. Java, Bibl. 30, p. 116.
- „ *flava* Brug. — Quart. Celebes, Bibl. 69, p. 177; recent.
- „ *flavida* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 62; recent.
- „ *flavida* Lamk. prior *insculpta* Mart. — Upp. Mioc. Java, Bibl. 59, p. 120.
- „ *flavidaeformis* Mart. — Mioc. Java, Bibl. 30, p. 115.
- „ *fritschi* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 43.
- „ *fufana* Fischer. — Plioc. Seran, Bibl. 14, p. 67.
- „ *fulgurans* Lamk. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *gembacana* Mart. — Mioc. Java, Bibl. 30, p. 114.
- „ *gracillima* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 121 and Bibl. 19, p. 49.
- „ *herklotsi* Mart. — Upp. Mioc. Java, Bibl. 23, p. 29.
- „ *ickei* Mart. — Mioc. Java, Bibl. 59, p. 317.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 144.
- „ *junghuhni* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 119.
- „ *lactescens* Montrouzier. — Plioc. Seran, Bibl. 14, p. 66; recent.
- „ *merangiana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 463.
- „ *molengraaffi* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 62.
- „ *njalindunganensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 464 and Bibl. 63, p. 123.
- „ *palabuanensis* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 59, p. 120; Plioc. N. Sumatra, Bibl. 62, p. 8.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 318.
- „ *papillifera* Mart. — Low. Mioc. Java, Bibl. 59, p. 122.
- „ *preangerensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 463.
- „ *puella* Sow. — Quart. Celebes, Bibl. 69, p. 178; recent.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 144.
- „ *simplex* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 121 and Bibl. 47, p. 46; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 43.
- „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 27.
- „ *sundaëca* Fischer. — Plioc. Seran, Bibl. 14, p. 67.

- Columbella turrigera* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 59, p. 122 and Bibl. 47, p. 20.  
 „ *turturina* Lamk. — Quart. Celebes, Bibl. 69, p. 178; recent.  
 „ *woodwardi* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 236.  
 „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.  
 „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.

## FAM. MURICIDAE.

- Murex adustus* Lamk. — Quart. Billiton, Bibl. 26, p. 19; recent.  
 „ *anguliferus* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 128; recent.  
 „ *bantamensis* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 126; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 63.  
 „ *batavianus* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 130.  
 „ *brevispina* Lamk. prior. — Low. Mioc. (Njalindoeng-beds) and Plioc. Java, Bibl. 61, p. 11; Plioc. N. Sumatra, Bibl. 62, p. 10.  
 „ *buxtorfi* Mart. — Upp. Eoc. Java, Bibl. 52, p. 146.  
 „ *capucinus* Lamk. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 29, p. 199 and Bibl. 47, p. 46 and 166; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 128; recent.  
 „ *contemptus* Adams. — Quart. Celebes, Bibl. 69, p. 179; recent.  
 „ *crassispina* Lamk. — Quart. Billiton, Bibl. 26, p. 19; recent.  
 „ *deningeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 145.  
 „ *djarianensis* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 464; Plioc. N. Sumatra, Bibl. 62, p. 10.  
 „ *ejectus* Mart. — Plioc. Java, Bibl. 59, p. 125 and Bibl. 47, p. 166.  
 „ *embryoliratus* Fischer. — Plioc. Seran, Bibl. 14, p. 78.  
 „ *endivia* Linn. — Quart. Celebes, Bibl. 69, p. 179; recent.  
 „ *fufanus* Fischer. — Plioc. Seran, Bibl. 14, p. 79.  
 „ *grooti* Jenkins. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 465.  
 „ *haustellum* Linn. — Plioc. Java, Bibl. 59, p. 127; Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *junghuhi* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 130, Bibl. 47, p. 20 and 46 and Bibl. 63, p. 123.  
 „ *karangensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 130.  
 „ *lebacanus* Mart. — Plioc. Java, Bibl. 59, p. 125, Bibl. 47, p. 166 and Bibl. 70, p. 40.  
 „ *longanensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 129.  
 „ *merangianus* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 465.  
 „ *microphyllus* Lamk. — Upp. Mioc. Java, Bibl. 59, p. 127; Upp. Mioc. E. Borneo, Bibl. 51, p. 330; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>1</sup>, p. 65; recent.

- Murex martini* Fischer. — Plioc. Seran, Bibl. 14, p. 80.  
 „ *pinnatus* Wood. — Upp. Mioc. Java, Bibl. 59, p. 127; Plioc. N. Sumatra, Bibl. 62, p. 10 and 19 (prior); recent.  
 „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 28.  
 „ *quadrifrons* Lamk. — Plioc. Java, Bibl. 47, p. 166; recent.  
 „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 128.  
 „ *strigatus* Reeve. — Quart. Celebes, Bibl. 69, p. 178; recent.  
 „ *talahabensis* Mart. — Low. Mioc. Java, Bibl. 59, p. 131.  
 „ *ternispina* Lamk. — Mioc. and Quart. (?) Java, Bibl. 30, p. 97; recent.  
 „ *timorensis* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 64.  
 „ *tribulus* Linn. — Quart. S. Celebes, Bibl. 35, p. 278; recent.  
 „ *verbeeki* Mart. — Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 123, Bibl. 19, p. 47 and 49 and Bibl. 47, p. 46; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 63; Plioc. Seran, Bibl. 14, p. 78.  
 „ *wanneri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 240.  
*Muricopsis arntzenii* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 29.  
 „ *bicatenatus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 28.  
 „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 29.  
 „ *vandervlerki* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 30.  
*Ocenebra bantamensis* Mart. — Upp. Mioc. Nias, Bibl. 15, p. 237; Plioc. Java, Bibl. 59, p. 133.  
 „ *miliaris* Gmel. — Quart. Celebes, Bibl. 69, p. 179; recent.  
 „ *volzi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 146.  
*Rapana bulbosa* Sol. — Java (age unknown), Bibl. 59, p. 133; recent.  
 „ *carinifera* Lamk. — Quart. S. Celebes, Bibl. 35, p. 278; recent.  
*Typhis macropterus* Mart. — Mioc. Java, Bibl. 30, p. 98.  
*Semityphis incisus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 31.  
*Typhis patellifer* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 31.

## FAM. PURPURIDAE.

- Acanthina javana* Mart. — Upp. Mioc. Java, Bibl. 59, p. 137.  
*Preangeria angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 450 and Bibl. 63, p. 124.  
 „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 451 and Bibl. 63, p. 124.  
*Purpura affinis* Reeve. — Quart. Celebes, Bibl. 69, p. 180 (prior); recent.



- Purpura* *angsanana* Mart. — Upp. Mioc. Java, Bibl. 59, p. 134.  
 „ *bantamensis* Mart. — Plioc. Java, Bibl. 59, p. 135 and Bibl. 19, p. 47.  
 „ *bufo* Lamk. — Java (age unknown), Bibl. 23, p. 42; recent.  
 „ *carinifera* Lamk. — Plioc. and Quart. Java, Bibl. 61, p. 11; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 65; recent.  
 „ *depressa* Mart. — Upp. Mioc. (Tjilang-beds) Java, Bibl. 23, p. 43 and Bibl. 47, p. 46; Plioc. N. Sumatra, Bibl. 62, p. 9.  
 „ *dijki* Mart. — Java (age unknown), Bibl. 30, p. 112.  
 „ *luteostoma* Chemn. — Plioc. Java, Bibl. 47, p. 166; recent.  
 „ *mancinella* Linn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 134 (prior); recent.  
 „ *preangerensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 136.  
 „ *umbilicata* Jenk. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilang-beds) Java, Bibl. 23, p. 43, Bibl. 47, p. 20 and 46 and Bibl. 63, p. 124.  
 „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 9 and 19.  
 „ spec. 6 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 9 and 19.  
*Ricinula* *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 466.  
 „ *chrysostoma* Desh. — Quart. Celebes, Bibl. 69, p. 180; recent.  
 „ *concatenata* Lamk. — Upp. Mioc. Nias, Bibl. 15, p. 237, Plioc. Timor, Bibl. 74<sup>1</sup>, p. 66; Quart. Celebes, Bibl. 69, p. 179; recent.  
 „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 147.  
 „ *rhombiformis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 138.  
 „ *songoënsis* Mart. — Upp. Eoc. Java, Bibl. 52, p. 148.  
 „ *turrita* Mart. — Mioc. Java, Bibl. 23, p. 41 and Bibl. 59, p. 137; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 66.  
 „ *undata* Chemn. — Upp. Mioc. Nias, Bibl. 15, p. 237; Quart. Celebes, Bibl. 69, p. 180; recent.

## FAM. CORALLIOPHILIDAE.

- Coralliophila* *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 466.  
 „ *costularis* Lamk. — Quart. Celebes, Bibl. 69, p. 180; recent.  
 „ *exarata* Pease. — Quart. Celebes, Bibl. 69, p. 180; recent.  
 „ *problematica* Mart. — Upp. Mioc. Java, Bibl. 59, p. 138.  
 „ *sokkohensis* Mart. — Low. Mioc. (W. Progo-beds) Java, Bibl. 53, p. 241.  
*Magilus* *antiquus* Lamk. — Mioc. Java, Bibl. 23, p. 77; recent.

## FAM. TRITONIDAE.

- Argobuccinum* *bantamense* Mart. — Plioc. (?) Java, Bibl. 59, p. 144.  
 „ *leucostoma* Lamk. — Neog. Java, Bibl. 23, p. 55; recent.  
*Eutritonium* *angsanatum* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 467.

- Eutritonium batavianum* Mart. — Upp. Mioc. Java, Bibl. 30, p. 134 and Bibl. 63, p. 124; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 68.
- „ *bomasense* Mart. — Low. Mioc. (W. Progo-beds) Java, Bibl. 53, p. 242.
- „ *distortum* Schub. et Wagn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 139; recent.
- „ *fennemai* Mart. — Low. Mioc. (Rembang- and W. Progo-beds) and Upp. Mioc. Java, Bibl. 59, p. 141 and Bibl. 53, p. 242; Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *gembacanum* Mart. — Plioc. Timor, Bibl. 30, p. 129 and 308.
- „ *gemmatum* Reeve. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *hillegondae* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 150.
- „ *impressum* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 38.
- „ *jogjacartense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 150.
- „ *losariense* Mart. — Plioc. Java, Bibl. 59, p. 140.
- „ *nitidulum* Sow. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *njalindungense* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 467.
- „ *pileare* Linn. — Low. Mioc. (Rembang- and W. Progo-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 141, Bibl. 53, p. 242 and Bibl. 47, p. 20, 46 and 159 (prior); Upp. Mioc. E. Borneo, Bibl. 51, p. 330 (prior); Plioc. N. Sumatra, Bibl. 62, p. 8 (prior); Plioc. Timor, Bibl. 74<sup>1</sup>, p. 66; Quart. Celebes, Bibl. 69, p. 180; recent.
- „ *pseudopyrum* Mart. — Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 143 and Bibl. 19, p. 47; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 67; Plioc. Seran, Bibl. 14, p. 63.
- „ *rubeculum* Linn. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *sowerbii* Reeve. — Plioc. Seran, Bibl. 14, p. 63; recent.
- „ *thersites* Reeve. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *tjaringinense* Mart. — Plioc. Java, Bibl. 59, p. 142.
- „ *tjilonganense* Mart. — Upp. Mioc. Java, Bibl. 59, p. 139; Plioc. S. W. New-Guinea, Bibl. 70, p. 32.
- „ *tortuosum* Reeve. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *tuberosum* Lamk. — Plioc. Timor, Bibl. 30, p. 129 and 308; recent.
- „ *verbeeki* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 37.
- „ *vespaceum* Lamk. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 67; recent.
- „ *wanneri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 148.
- „ spec. Siemon. — Plioc. S. W. New-Guinea, Bibl. 70, p. 32.
- „ spec. H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 232.
- Hindsia affinis* Boettg. ?).

- Hindsia* *dijki* Mart. — Mioc. Java, Bibl. 30, p. 131.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 313 and Bibl. 19, p. 49; Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 151.
- „ *javana* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 315.
- „ *maxima* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 153.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 152.
- „ *nivea* Gmel. prior *affinis* Boettg. (?) — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 41; Upp. Mioc. Nias, Bibl. 15, p. 234; Plioc. Java, Bibl. 59, p. 103; Plioc. N. Sumatra, Bibl. 62, p. 8.
- „ *samarangana* Mart. — Mioc. Java, Bibl. 59, p. 315; Plioc. N. Sumatra, Bibl. 62, p. 8.
- „ *tambacana* Mart. — Upp. Mioc. and Plioc. (Sondé-beds) Java Bibl. 59, p. 314, Bibl. 19, p. 47 and 49 and Bibl. 70, p. 52.
- „ *teschi* Fischer. — Plioc. Seran, Bibl. 14, p. 64.
- „ *tjemoroënsis* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 316; Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127.
- „ *wanneri* Tesch. — Plioc. Timor, Bibl. 74<sup>1</sup>, p. 69.
- Persona* *djungranganensis* Mart. — Low. Mioc. (W. Progo-beds) Java, Bibl. 53, p. 242.
- „ *reticulata* Linn. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 145 and Bibl. 19, p. 49; Upp. Mioc. W. Sumatra, Bibl. 72, p. 161; Plioc. N. Sumatra, Bibl. 62, p. 8; Plioc. Timor, Bibl. 74<sup>1</sup>, p. 69; Plioc. Seran, Bibl. 14, p. 65; recent.
- Ranella* *affinis* Brod. — Upp. Mioc. Java, Bibl. 59, p. 147; Plioc. and Quart. (?) Timor, Bibl. 74<sup>2</sup>, p. 42; Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *albivaricosa* Reeve. — Mioc. Saonek besar, Bibl. 4, p. 674; recent.
- „ *anjarensis* Mart. — Quart. Java, Bibl. 30, p. 137.
- „ *bitubercularis* Lamk. — Low. Mioc. (Rembang-beds), Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 149, Bibl. 19, p. 47, Bibl. 47, p. 159 and Bibl. 70, p. 54; Low. Mioc. Nias, Bibl. 15, p. 237; Plioc. N. Sumatra, Bibl. 62, p. 8; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 43; Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *crassa* Dillwyn. — Plioc. N. Sumatra, Bibl. 62, p. 8; recent.
- „ *crumena* Lamk. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 145; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 82; Plioc. N. Sumatra, Bibl. 62, p. 8; recent.
- „ *crumena* Lamk. prior *paucinodosa* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 36.
- „ *granifera* Lamk. — Plioc. N. Sumatra, Bibl. 62, p. 8; recent.

- Ranella gyrina* Linn. — Mioc. Java, Bibl. 59, p. 149; Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *junghuhni* Mart. — Mioc. Java, Bibl. 59, p. 150.
- „ *lampas* Linn. — Plioc. Java, Bibl. 59, p. 148; Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *leucostoma* Lamk. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; recent.
- „ *magnifica* Mart. — Upp. Mioc. Java, Bibl. 23, p. 53; Upp. Mioc. S. Sumatra, Bibl. 84, p. 109.
- „ *margaritula* Desh. — Mioc. and Plioc. Java, Bibl. 59, p. 146; Upp. Mioc. S. Sumatra, Bibl. 84, p. 109; Plioc. Seran, Bibl. 14, p. 65; recent.
- „ *nobilis* Reeve. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 146, Bibl. 19, p. 47 and Bibl. 47, p. 20 and 46; Upp. Mioc. S. Sumatra, Bibl. 84, p. 109; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 41; recent.
- „ *pamotanensis* Mart. — Mioc. Java, Bibl. 59, p. 151, Bibl. 47, p. 159 and Bibl. 70, p. 52.
- „ *pulchra* Gray. — Mioc. Java, Bibl. 30, p. 135; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 43; recent.
- „ *rana* Linn. — Quart. Celebes, Bibl. 69, p. 181; recent.
- „ *siphonata* Reeve. — Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *spinosa* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 147 (prior); recent.
- „ *subgranosa* Beck. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 146 and Bibl. 19, p. 47 and 49; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 70; Plioc. Seran, Bibl. 14, p. 65; recent.
- „ *tritonoides* H. Woodw. — Mioc. Nias, Bibl. 63, p. 239.
- „ *tuberculata* Brod. — Mioc. and Quart. Java, Bibl. 59, p. 149; Plioc. N. Sumatra, Bibl. 62, p. 8; recent.
- „ *spec.* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 238.

## FAM. CASSIDIDAE.

- Cassidaria arntzenii* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 155.
- „ *boehmi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 34.
- „ *javana* Mart. — Upp. Mioc. Java, Bibl. 23, p. 46.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 157.
- „ *spec.* — Upp. Mioc. Java, Bibl. 59, p. 158.
- Cassidea anteniana* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 32.
- „ *umbgrovei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 33.
- Cassis bisulcata* Wagn. — Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *conica* Mart. — Neog. Java, Bibl. 29, p. 121.
- „ *cornuta* Linn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 45; recent.

- Cassis decussata* Linn. — Java (probably Plioc.), Bibl. 59, p. 156; recent.
- „ *denseplicata* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 243.
- „ *depressior* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 219 and Bibl. 47, p. 46.
- „ *glauca* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *glaucoides* Mart. — Upp. Mioc. Java, Bibl. 23, p. 45.
- „ *herklotsi* Mart. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 155 and Bibl. 19, p. 47 and 48; Plioc. Seran, Bibl. 14, p. 61.
- „ *japonica* Reeve. — Plioc. Seran, Bibl. 14, p. 60; recent.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 154.
- „ *lagenaeformis* Boettg. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 106.
- „ *pila* Reeve. — Upp. Mioc. (Tjilanang-beds) ? and Plioc. (Sondé-beds) Java, Bibl. 59, p. 154, Bibl. 19, p. 47 and Bibl. 47, p. 167 (prior); Upp. Mioc. S. Sumatra, Bibl. 84, p. 109; Upp. Mioc. E. Borneo <sup>1</sup>), Bibl. 71, p. 129; Plioc. N. Sumatra, Bibl. 62, p. 8; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 44; Plioc. S. W. New-Guinea, Bibl. 70, p. 30; Plioc. Seran, Bibl. 14, p. 60; recent.
- „ *preangerensis* Mart. — Java (probably Upp. Mioc.), Bibl. 59, p. 153.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 155 and Bibl. 47, p. 159.
- „ *tegalensis* Mart. — Plioc. Java, Bibl. 59, p. 156.
- „ *vibex* Linn. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 44; Quart. Celebes, Bibl. 69, p. 182; recent.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.
- „ spec. Martin. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 86.
- „ spec. H. Woodw. — Mioc. Nias, Bibl. 83, p. 247.
- Oniscia antiquissima* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 156.
- Sconsia striata* Lamk. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 158; recent.

## FAM. DOLIIDAE.

- Dolium chinense* Chemn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 163 and Bibl. 47, p. 46; recent.
- „ *costatum* Desh. — Mioc. and Plioc. Java, Bibl. 59, p. 161 and Bibl. 19, p. 47; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105 and 109; Plioc. N. Sumatra, Bibl. 62, p. 8; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 45 and Bibl. 35, p. 280; Plioc. S. W. New-Guinea, Bibl. 70, p. 31; Quart. Celebes, Bibl. 69, p. 182; recent.
- „ *costatum* Desh. prior *martini* Boettg. — Upp. Mioc. (Lower-Palembang-beds) S. Sumatra, Bibl. 80<sup>2</sup>, p. 84.
- „ *fasciatum* Brug. — Plioc. Java, Bibl. 47, p. 167; recent.

- Dolium* *hochstetteri* Mart. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 109; Plioc. Java, Bibl. 59, p. 162.
- „ *losariense* Mart. — Plioc. Java, Bibl. 59, p. 163.
- „ *modjokasriense* Mart. — Upp. Mioc. Java, Bibl. 59, p. 160.
- „ *pomum* Linn. — Quart. Timor, Bibl. 4, p. 671; recent.
- „ *variegatum* Lamk. — Plioc. Java, Bibl. 59, p. 162; recent.
- „ *zonatum* Green. — Plioc. Java, Bibl. 59, p. 159 and Bibl. 19, p. 47 (prior); Plioc. N. Sumatra, Bibl. 62, p. 8 and 18 (? prior); Plioc. Seran, Bibl. 14, p. 61; recent.
- „ *spec. 2* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.
- Pirula* *dussumieri* Valenc. — Mioc. Java, Bibl. 29, p. 213; Upp. Mioc. S. Sumatra, Bibl. 84, p. 105; recent.
- „ *exporrecta* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 34.
- „ *ficoides* Lamk. — Mioc. Java, Bibl. 23, p. 56; Plioc. Seran<sup>15</sup>), Bibl. 14, p. 62; recent.
- „ *ficus* Linn. — Mioc. Java, Bibl. 23, p. 57; recent.
- „ *latifasciata* Mart. — Neog. Java, Bibl. 29, p. 213.
- „ *menengtengana* Mart. — Plioc. Java, Bibl. 59, p. 164.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 164.
- „ *vespertilio* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.

## FAM. CYPRAEIDAE.

- Amphiperas javanum* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 165.
- „ *lacteam* Lamk. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *margaritum* Sow. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *triticeum* Lamk. — Plioc. Seran, Bibl. 14, p. 59; recent.
- Cypraea angygyra* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 21.
- „ *annula* Linn. — Mioc. Java, Bibl. 30, p. 140; Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>2</sup>, p. 46; Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *arabica* Linn. — Java (age unknown); Quart. Celebes, Bibl. 26, p. 20; recent.
- „ *beberkiriana* Mart. — Low. Mioc. Java, Bibl. 59, p. 171 and Bibl. 47, p. 20.
- „ *becki* Gask. — Quart. Celebes, Bibl. 69, p. 184; recent.
- „ *burialensis* Mart.<sup>8</sup>) — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 21, Bibl. 47, p. 46 and Bibl. 63, p. 125.
- „ *caput viperae* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 59, p. 169 and Bibl. 47, p. 20.
- „ *carneola* Linn. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *cineta* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 172 and Bibl. 47, p. 159.
- „ *clandestina* Linn. — Quart. Celebes, Bibl. 69, p. 184; recent.
- „ *conigera* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 156.
- „ *cordiformis* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 77.

- Cypraea cruenta* Gmel. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *cylindrica* Born. — Plioc. Java, Bibl. 19, p. 47; Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *denseplicata* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 77.
- „ *elongata* d'Arch. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 78.
- „ *erosa* Linn. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 174, Bibl. 19, p. 47 and Bibl. 47, p. 46; Middle Mioc. Nias, Bibl. 83, p. 229; Plioc. N. Sumatra, Bibl. 62, p. 8; Plioc. and Quart. (?) Timor, Bibl. 74<sup>2</sup>, p. 47; Quart. Celebes, Bibl. 69, p. 185; recent.
- „ *errones* Linn. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *everwijni* Mart. — Low. Mioc. (West-Progo-beds) and Upp. Mioc. Java, Bibl. 53, p. 244.
- „ *feuilletaui* Mart. — Neog. (?) Java, Bibl. 47, p. 134.
- „ *fufana* Fischer. — Plioc. Seran, Bibl. 14, p. 58.
- „ *gampangensis* Mart. — Neog. (?) Java, Bibl. 47, p. 135.
- „ *gangrenosa* Sol. var. *flaveola* Reeve. — Quart. Celebes, Bibl. 69, p. 185; recent.
- „ *geinitzi* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 76.
- „ *gendinganensis* Mart. <sup>9</sup>) — Plioc. (Sondé-beds) Java, Bibl. 59, p. 167.
- „ *insculpta* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 166.
- „ *isabella* Linn. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *junghuhi* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 172 and Bibl. 47, p. 20 and 46.
- „ *limacina* Lamk. — Quart. Celebes, Bibl. 69, p. 185; recent.
- „ *lutea* Gronov. — Quart. Celebes, Bibl. 69, p. 184; recent.
- „ *lynx* Linn. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 46; Quart. Celebes, Bibl. 69, p. 183; Java (age unknown), Bibl. 23, p. 23; recent.
- „ *martini* Schepman. — Quart. Celebes, Bibl. 69, p. 184.
- „ *murisimilis* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 168, Bibl. 47, p. 20 and 46 and Bibl. 63, p. 125.
- „ *neglecta* Sow. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 45.
- „ *nucleus* Linn. — Middle Mioc. Nias, Bibl. 83, p. 228; recent.
- „ *onyx* Linn. prior *adusta* Chemn. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 107.
- „ *oryza* Lamk. — Plioc. Seran, Bibl. 14, p. 59; recent.
- „ *ovata* Mart. <sup>8</sup>).
- „ *paniculus* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ), S. E. Borneo, Bibl. 1, p. 22.
- „ *punctata* Linn. — Plioc. Seran, Bibl. 14, p. 58; Quart. Celebes, Bibl. 69, p. 184; recent.
- „ *quadrimaculata* Gray. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *semiorbicularis* Siemon. — Plioc. S. W. New-Guinea, Bibl. 70, p. 29.

- Cypraea simplicissima* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 167.
- „ *smithi* Mart. — Mioc. Java, Bibl. 30, p. 141.
- „ *sondeiana* Mart. — Low. Mioc. (Rembang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 173, Bibl. 19, p. 47 and Bibl. 47, p. 159.
- „ *staphylaea* Linn. — Quart. Celebes, Bibl. 69, p. 185; recent.
- „ *stolida* Linn. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *subelongata* H. Woodw.<sup>2)</sup> — Low. Mioc. Centr. Sumatra, Bibl. 83, p. 214.
- „ *teres* Gmel. — Quart. Celebes, Bibl. 69, p. 183; recent.
- „ *tigris* Linn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 22 (pars) and Bibl. 59, p. 166; Quart. Celebes, Bibl. 35, p. 277; recent.
- „ *vitellus* Linn. — Upp. Mioc. Java, Bibl. 59, p. 166; Plioc. N. Sumatra, Bibl. 62, p. 8; recent.
- „ sp. *Siemon*. — Plioc. Java, Bibl. 70, p. 47; Plioc. S. W. New-Guinea, Bibl. 70, p. 30.
- Erato indica* Mart. — Mioc. Java, Bibl. 23, p. 23.
- Trivia oryza* Lamk. — Quart. Celebes, Bibl. 69, p. 185; recent.
- „ spec. Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 18.
- „ spec. Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 238.

## FAM. STROMBIDAE.

- Dientomochilus ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 37.
- „ *monodaetylus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 159.
- Jogjacartanus sultani* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 36.
- Pterocera lambis* Lamk. — Quart. Billiton, Bibl. 26, p. 19; recent.
- „ *millepeda* Lamk. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 52; Quart. Timor, Bibl. 35, p. 280; recent.
- „ spec. indet. — Low. Mioc. Java, Bibl. 29, p. 122.
- Rimella cancellata* Lamk.<sup>28)</sup> — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 51; Plioc. Seran, Bibl. 14, p. 57; recent.
- „ *iniquicostata* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 15.
- „ *javana* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 469; Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *mordax* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 246.
- „ *pollii* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 240.
- „ *semicancellata* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 194, Bibl. 52, p. 158 and Bibl. 47, p. 159.
- „ *sokkohensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 247.
- „ *spinifera* Mart. — Plioc. Java, Bibl. 59, p. 192 and Bibl. 52, p. 158; Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.



- Rimella tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 193 and Bibl. 52, p. 158.
- „ *tylodaera* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 157.
- „ *velata* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 35.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.
- Rostellaria butaciana* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 190.
- „ *delicatula* Nevil. — Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>2</sup>, p. 50; recent.
- „ *powisii* Petit. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 51; recent.
- „ *powisii* Petit prior *modesta* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 191 and Bibl. 19, p. 47.
- „ *spinifera* Martin<sup>28</sup>).
- „ *verbeeki* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. Java, Bibl. 59, p. 189 and Bibl. 47, p. 20 and 159; Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.
- Strombus* *bulbulus* Sow. — Quart. Celebes, Bibl. 69, p. 186; recent.
- „ *canarium* Linn. — Plioc. N. Sumatra, Bibl. 62, p. 7; Plioc. Timor, Bibl. 4, p. 668 and 669; Quart. Billiton, Bibl. 26, p. 19; recent.
- „ *deningeri* Fischer. — Plioc. Seran, Bibl. 14, p. 56.
- „ *dentatus* Linn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 188 and Bibl. 19, p. 47 (prior); recent.
- „ *dentatus* Linn. var. *elegans* Sow. — Quart. Celebes, Bibl. 69, p. 186; recent.
- „ *fennemai* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 181 and Bibl. 19, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 8 and 17; Plioc. and Quart. (?) Timor, Bibl. 74<sup>2</sup>, p. 47; Plioc. Seran, Bibl. 47, p. 56.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 187 and Bibl. 19, p. 49.
- „ *gibberulus* Linn. — Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 49 and Bibl. 35, p. 280; Quart. S. Celebes, Bibl. 35, p. 278; recent.
- „ *glaber* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 319; ? Upp. Mioc. Nias, Bibl. 15, p. 239.
- „ *herklotsi* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 178 and Bibl. 47, p. 20 and 46.
- „ *isabella* Lamk. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 184, Bibl. 53, p. 246 and Bibl. 19, p. 47; Plioc. N. E. Celebes. Bibl. 35, p. 276; Plioc. and Quart. (?) Timor, Bibl. 74<sup>2</sup>, p. 126 and Bibl. 35, p. 279; Quart. Celebes, Bibl. 69, p. 185 and Bibl. 35, p. 278; Quart. Billiton, Bibl. 26, p. 19; recent.
- „ *javanus* Mart. — Mioc. Java, Bibl. 23, p. 47.
- „ *junghuhni* Mart. — Mioc. Java, Bibl. 23, p. 47.

- Strombus kemedjingensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 246 and Bibl. 63, p. 126.
- „ *luhuanus* Linn. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 49; Quart. S. Celebes, Bibl. 35, p. 278; Quart. Timor, Bibl. 35, p. 280; recent.
- „ *madiunensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 183; Plioc. N. Sumatra, Bibl. 62, p. 8.
- „ *maximus* Mart.<sup>2)</sup> — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 175.
- „ *minimus* Linn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 182; recent.
- „ *muricatus* Martini<sup>10)</sup> — Upp. Mioc. Nias, Bibl. 15, p. 240; Quart. Celebes, Bibl. 69, p. 186; recent.
- „ *palabuanensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 185.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 180 and Bibl. 47, p. 159.
- „ *sedanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 180 and Bibl. 47, p. 159; Upp. Mioc. E. Borneo, Bibl. 51, p. 330.
- „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 319.
- „ *spinosus* Mart. — Low. Mioc. (W. Progo- and Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 468 and Bibl. 63, p. 125.
- „ *spolongensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 245.
- „ *succinctus* Linn. var. *septimus* Duclos. — Quart. Celebes, Bibl. 69, p. 186; recent.
- „ *sumatranus* H. Woodw. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 104 and Bibl. 15, p. 239.
- „ *terebellatus* Sow. — Quart. Celebes, Bibl. 69, p. 186; recent.
- „ *thersites* Mart.<sup>27)</sup> — Plioc. (Sondé-beds) Java, Bibl. 59, p. 184; Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.
- „ *tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 177.
- „ *triangulatus* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 186, Bibl. 47, p. 46 and Bibl. 63, p. 125.
- „ *tuberosus* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 468 and Bibl. 63, p. 125.
- „ *unifasciatus* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 187, Bibl. 47, p. 46 and Bibl. 63, p. 126.
- „ *urceus* Linn.<sup>10)</sup> — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 49; Quart. S. Celebes, Bibl. 35, p. 278; Quart. Billiton, Bibl. 26, p. 19; recent.
- „ *variabilis* Swains. — Upp. Mioc. Nias, Bibl. 15, p. 239; recent.
- „ *varinginensis* Mart. — Plioc. Java, Bibl. 59, p. 184 and Bibl. 53, p. 246.
- „ *vittatus* Linn. — Plioc. and Quart. (?) Java, Bibl. 30, p. 143 and Bibl. 53, p. 246; recent.
- „ *spec. 4* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.

- Strombus spec.* 6 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 8 and 17.  
*Terebellum einctum* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 248.  
 „ *costatum* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 38.  
 „ *papilliferum* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 248; Plioc. N. Sumatra, Bibl. 62, p. 8.  
 „ *pisciforme* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 37.  
 „ *punctatum* Chemn. — Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 195 and Bibl. 19, p. 47 and 49; Mioc. Saonek besar, Bibl. 4, p. 674; Plioc. N. Sumatra, Bibl. 62, p. 8; recent.  
 „ *squamosum* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 38.  
 „ *subulatum* Lamk. — Quart. Billiton, Bibl. 26, p. 19; recent.  
 „ *spec. H. Woodw.* — Middle Mioc. Nias, Bibl. 83, p. 228.

## FAM. CERITHIIDAE.

- Bittium dijki* Mart. — Low. Mioc. Java, Bibl. 30, p. 156.  
 „ *geyleri* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 2, p. 138 and Bibl. 52, p. 161.  
*Cerithium aluco* Linn. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 205; recent.  
 „ *angsananum* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 470.  
 „ *angygyrum* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 69.  
 „ *archiaci* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 988 and Bibl. 55.  
 „ *asperum* Brug. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *beberkirianum* Mart.<sup>11</sup>). — Low. Mioc. (Njalindoeng-beds), Upp. Mioc. and Plioc. Java, Bibl. 57, p. 472 and Bibl. 63, p. 126; Plioc. N. Sumatra, Bibl. 62, p. 7 and 16 (mut.).  
 „ *boettgeri* Martin-Icke<sup>12</sup>). — Upp. Mioc. Nias, Bibl. 15, p. 241.  
 „ *breviculum* Sow. — Plioc. Seran, Bibl. 14, p. 53; recent.  
 „ *citrinum* Sow. — Quart. Celebes, Bibl. 69, p. 187; recent.  
 „ *claviforme* Schepman. — Quart. Celebes, Bibl. 69, p. 187.  
 „ *coralium* Dufr. — Mioc. Java, Bibl. 59, p. 201 and p. 320; Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.  
 „ *djampangtengahense* Mart. — Low. Mioc. Java, Bibl. 59, p. 207.  
 „ *echinatiformis* Mart. — Plioc. Timor, Bibl. 30, p. 153 and 308.  
 „ *echinatum* Lamk. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 52; recent.  
 „ *erectum* Mart. — Upp. Mioc. Java, Bibl. 30, p. 149.  
 „ *everwijni* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 202 and Bibl. 47, p. 46.

- Cerithium fennemai* Mart. — Low. Mioc. Java, Bibl. 59, p. 200.
- „ *filocinctum* Boettg.<sup>2</sup>) — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 10; (?) Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 68.
- „ *fritschi* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 39.
- „ *gendinganense* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 204.
- „ *gigas* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 59, p. 208 and Bibl. 63, p. 126.
- „ *hillegondae* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 471.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 161.
- „ *inflatum* Quoy. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 55; recent.
- „ *jonkeri* Mart. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 54, Bibl. 30, p. 148 and 308 and Bibl. 35, p. 279; Plioc. N. E. Celebes, Bibl. 35, p. 276.
- „ *karangense* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 206 and Bibl. 19, p. 47; Plioc. Seran, Bibl. 14, p. 53.
- „ *koperbergi* Schepman. — Quart. Celebes, Bibl. 69, p. 188.
- „ *merangianum* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 470.
- „ *montis selae* Mart.<sup>18</sup>).
- „ *munitum* Sow. — Quart. Celebes, Bibl. 69, p. 187; recent.
- „ *nanggulanense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 38.
- „ *niasensis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 240.
- „ *njalindunganense* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 469.
- „ *noetlingi* Mart. — Low. Mioc. Java, Bibl. 59, p. 203 and Bibl. 47, p. 21; Upp. Mioc. E. Borneo, Bibl. 51, p. 331.
- „ *obeliscus* Brug. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 206; recent.
- „ *obesum* Sow. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 56; recent.
- „ *papillosum* Sow. — Quart. Celebes, Bibl. 69, p. 187; recent.
- „ *parungpontengense* Mart. — Upp. Mioc. Java, Bibl. 59, p. 203.
- „ *patulum* Sow. — Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>2</sup>, p. 53; recent.
- „ *planiusculum* Kobelt. — Quart. Celebes, Bibl. 69, p. 187 (prior); recent.
- „ *preangerense* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 198 and Bibl. 47, p. 46 and 200.
- „ *procerum* Kien. — Quart. Billiton, Bibl. 26, p. 20.
- „ *puruense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 162.
- „ *rubus* Martyn. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 55 and Bibl. 4, p. 669; recent.
- „ *samaranganum* Mart. — Plioc. (?) Java, Bibl. 30, p. 154.

- Cerithium* *schröderi* Martin-Ieke. — Upp. Mioc. Nias, Bibl. 15, p. 242.  
 „ *songoëns* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 162.  
 „ *sucaradjanum* Mart. — Upp. Mioc. Java, Bibl. 59, p. 197.  
 „ *talahabense* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 201, Bibl. 47, p. 20 and Bibl. 63, p. 126.  
 „ *tjilonganense* Mart. — Low. Mioc. (Njalindoeng-beds and Upp. Mioc. Java, Bibl. 57, p. 470.  
 „ *tuberculatum* Linn. — Plioc. (Sondé-beds). Java, Bibl. 59, p. 202 and Bibl. 19, p. 47 (prior); recent.  
 „ *vandervlerki*<sup>12</sup>). — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 39.  
 „ *verbeeki* H. Woodw. — Mioc. Nias, Bibl. 83, p. 240; Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 199, Bibl. 47, p. 20 and p. 46; Upp. Mioc. E. Borneo, Bibl. 51, p. 331; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 53 and Bibl. 30, p. 152 and 308.  
 „ *vertagus* Brug. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *wanneri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 248.  
 „ spec. 5 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.  
 „ spec. 10 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.  
 „ spec. Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 10.  
 „ sp. sp. H. Woodw. — Mioc. Nias, Bibl. 83, p. 244; Low. Mioc. Centr. Sumatra, Bibl. 83, p. 215.
- Potamides* *angsananus* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 473.  
 „ *babylonicus* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 30, p. 146.  
 „ *bandongensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 213 and Bibl. 47, p. 46.  
 „ *beberkianum*<sup>11</sup>).  
 „ *cheribonensis* Mart. — Plioc. Java, Bibl. 59, p. 320, Bibl. 47, p. 167 and Bibl. 70, p. 51.  
 „ *deningeri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 249 and Bibl. 63, p. 127.  
 „ *djadjariensis* Mart. — Plioc. Java, Bibl. 59, p. 216.  
 „ *djunggranganensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 249.  
 „ *dollfusi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 250 and p. 296 and Bibl. 63, p. 127.  
 „ *ermelingianus* Mart. — Upp. Mioc. Java, Bibl. 59, p. 214.  
 „ *herklotsi* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 473.  
 „ *hochstetteri* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 471 and Bibl. 63, p. 127.

- Potamidés ickei* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 252.
- „ *jenkinsi* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 215, Bibl. 47, p. 167 and Bibl. 70, p. 40; Plioc. N. Sumatra, Bibl. 62, p. 7; Plioc. Timor, Bibl. 35, p. 279.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 163.
- „ *jonkeri* Mart. — Upp. Mioc. Nias, Bibl. 15, p. 242; Plioc. Java, Bibl. 30, p. 148, Bibl. 59, p. 201 and Bibl. 19, p. 47; Plioc. Timor, Bibl. 4, p. 668.
- „ *kelirensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 52, p. 250.
- „ *merangianus* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 472.
- „ *noetlingi* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 474.
- „ *palustris* Linn. — Middle Mioc. Nias, Bibl. 83, p. 230; Upp. Mioc. and Plioc. Java, Bibl. 59, p. 210 (prior); Plioc. N. Sumatra, Bibl. 62, p. 7; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 57 and Bibl. 4, p. 669; Quart. S. Celebes, Bibl. 35, p. 277; recent.
- „ *preangerensis* Mart. — Low. Mioc. Java, Bibl. 59, p. 217 and Bibl. 47, p. 21.
- „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 253.
- „ *spiniger* Mart. — Plioc. (?) Java, Bibl. 30, p. 156; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 58.
- „ *sucabumianus* Mart. — Low. Mioc. and Upp. Mioc. (Tjilang-beds) Java, Bibl. 59, p. 215 and Bibl. 47, p. 21 and 47.
- „ *sucaradjanus* Mart. — Upp. Mioc. Java, Bibl. 59, p. 211.
- „ *sulcatus* Born. — Upp. Mioc. and Plioc. (?) Java, Bibl. 59, p. 211 and Bibl. 47, p. 21; Plioc. N. Sumatra, Bibl. 62, p. 7; Plioc. and Quart. (?) Timor, Bibl. 74<sup>2</sup>, p. 56, Bibl. 30, p. 146 and 308 and Bibl. 35, p. 279; recent.
- „ *teschi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 252 and Bibl. 63, p. 127.
- „ *volzi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 251.
- „ *wichmanni* Mart. — Plioc. N. E. Celebes, Bibl. 35, p. 276; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 57, Bibl. 4, p. 669 and Bibl. 35, p. 279.
- „ *woodwardi* Mart. — Mioc. Java, Bibl. 30, p. 157.
- „ *zonalis* Brug. — Quart. Java, Bibl. 59, p. 218; recent.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- „ spec. 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- „ spec. 7 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- „ spec. 8 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- „ spec. Siemon. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 23.
- Rhinoclavis ickei* Schepman. — Quart. Celebes, Bibl. 69, p. 189.

- Telescopium fuscum* Chemn. — Quart. S. Celebes, Bibl. 35, p. 277; recent.
- „ *telescopium* Linn.<sup>13</sup>) — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 220; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 128; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 58; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *titan* Mart. — Plioc. Java, Bibl. 59, p. 220 and Bibl. 47, p. 167; Plioc. N. Sumatra, Bibl. 62, p. 7; Plioc. N. E. Celebes, Bibl. 35, p. 276; Plioc. Timor, Bibl. 35, p. 279 and Bibl. 4, p. 668 and 669.
- „ *spec. Siemon.* — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 29.
- Triforis javanus* Mart. — Low. Mioc. Java, Bibl. 59, p. 195; Upp. Mioc. E. Borneo, Bibl. 51, p. 331.
- „ *malayanus* Fischer. — Plioc. Seran, Bibl. 14, p. 54.
- „ *seranus* Fischer. — Plioc. Seran, Bibl. 14, p. 54.
- „ *spec. Fischer.* — Plioc. Seran, Bibl. 14, p. 55.
- „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 49.
- Vicarya callosa* Jenk. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 219 and Bibl. 47, p. 21 and 47; Upp. Mioc. E. Borneo, Bibl. 51, p. 331.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 40.
- „ *verneuili* d'Arch.<sup>2</sup>)

## FAM. MODULIDAE.

- Modulus preangerensis* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. Java, Bibl. 59, p. 221 and Bibl. 63, p. 127.
- „ *tectum* Chemn. — Quart. Celebes, Bibl. 69, p. 190; recent.

## FAM. PLANAXIDAE.

- Planaxis decollatus* Quoy et Gaim. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 222; recent.
- „ *densestriatus* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 254.
- „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 222.
- „ *sulcatus* Born. — Neog. Java, Bibl. 59, p. 222; recent.

## FAM. VERMETIDAE.

- Tenagodes anguina* Linn. — Upp. Mioc. Java, Bibl. 59, p. 225; recent.
- „ *obtusiformis* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. Java, Bibl. 59, p. 224; † Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- Vermetus dentiferus* Lamk. — Upper Tertiary Soemba, Bibl. 4, p. 672.
- „ *dijki* Mart. — Mioc. Java, Bibl. 30, p. 170.

- Vermetus javanus* Mart. — Low. Mioc. (West-Progo-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 223, Bibl. 47, p. 47, Bibl. 53, p. 254, Bibl. 19, p. 47 and 49 and Bibl. 70, p. 54; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 59.
- „ *junghuhni* Mart. — Upp. Mioc. Java, Bibl. 23, p. 78.
- „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 50.
- „ spec. Siemon. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 28.

## FAM. TURRITELLIDAE.

- Mathildia insulindae* Fischer. — Plioc. Seran, Bibl. 14, p. 50.
- „ *njalindunganensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 474.
- Turritella acuticarinata* Dkr. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 226 and Bibl. 47, p. 47.
- „ *angulata* Sow.<sup>2</sup>) — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 68 and Bibl. 47, p. 47.
- „ *assimilis* Sow.<sup>2</sup>)
- „ *bandongensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 68 and Bibl. 47, p. 47.
- „ *bantamensis* Mart. — Low. Mioc., Upp. Mioc. and Plioc. Java, Bibl. 59, p. 230 and Bibl. 47, p. 21; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106.
- „ *bantamensis* Mart. prior *producta* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 474.
- „ *bantamensis* Mart. prior *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 230.
- „ *boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 165.
- „ *cingulifera* Sow.<sup>16</sup>) — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 233 and Bibl. 19, p. 47; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 61, Bibl. 4, p. 669, Bibl. 30, p. 172 and 308 and Bibl. 35, p. 279; Plioc. S. W. New-Guinea, Bibl. 70, p. 28; Plioc. Seran, Bibl. 14, p. 49; recent.
- „ *concava* Marts. — Quart. Celebes, Bibl. 69, p. 190; recent.
- „ *cramatensis* Mart. — Java (age unknown), Bibl. 59, p. 231.
- „ *djadjariensis* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 61, p. 9.
- „ *duplicata* Lamk. — Quart. S. Celebes, Bibl. 35, p. 277; recent.
- „ *javana* Mart. — Low. Mioc., Upp. Mioc., Plioc. and Quart. (?) Java, Bibl. 59, p. 227, Bibl. 47, p. 21, Bibl. 63, p. 127 and Bibl. 70, p. 40 and 51.
- „ *jenkinsi* (Jenkins) Cossmann<sup>17</sup>) — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 226, Bibl. 47, p. 47; Bibl. 63, p. 127 and Bibl. 70, p. 51 and 54.
- „ *simplex* Jenkins<sup>17</sup>).
- „ *spolongensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 256.



- Turritella subulata* Mart. — Low. Mioc. (West-Progo-beds) and Quart. (?) Java, Bibl. 53, p. 255.
- „ *subulata* Mart. prior *sedanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 234, Bibl. 53, p. 255 and Bibl. 47, p. 159; Upp. Mioc. E. Borneo, Bibl. 51, p. 331.
- „ *terebra* Lamk. — Upp. Mioc. and Quart. Java, Bibl. 59, p. 232 (prior); Upp. Mioc. W. Sumatra, Bibl. 24, p. 86; Quart. Celebes, Bibl. 69, p. 190; recent.
- „ *teschi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 255.
- „ *tjicumpaiensis* Mart. — Java (age unknown), Bibl. 59, p. 232.
- „ *vittulata* Ad. et Reeve. — Upp. Tert. Java, Bibl. 59, p. 233 and Bibl. 70, p. 54; Plioc. N. Sumatra, Bibl. 62, p. 6; recent.
- „ *vulgaris* Mart.<sup>16)</sup>.
- „ spec. Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 109.
- „ spec. H. Woodw. — Mioc. Nias, Bibl. 83, p. 244.

## FAM. MELANIIDAE.

- Faunus boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 165.
- „ *cossmanni* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 167.
- „ *odengensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 219, Bibl. 47, p. 47 and Bibl. 52, p. 166.
- „ *palabuanensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 218 and Bibl. 52, p. 166.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- Melania bodjaënsis* Mart. — Plioc. (?) Java, Bibl. 59, p. 237.
- „ *bojolaliensis* Mart. — Quart. (?) Java, Bibl. 59, p. 242.
- „ *costata* Quoy et Gaim. var. *glabra* H. Woodw. — Nias, Bibl. 83, p. 252.
- „ *darmavangiensis* Mart. — Neog (?) Java, Bibl. 59, p. 245.
- „ *fennemai* Mart. — Quart. (?) Java, Bibl. 59, p. 239.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 235.
- „ *granum* v. d. Busch. — Quart. Java, Bibl. 59, p. 321 and Bibl. 19, p. 50; recent.
- „ *infracostata* Mousson. — Quart. Java, Bibl. 19, p. 51; recent.
- „ *junghuhni* Mart. — Mioc. (?) Java, Bibl. 23, p. 89 and Bibl. 59, p. 235.
- „ *kritjianensis* Mart. — Quart (?) Java, Bibl. 59, p. 244.
- „ *madiunensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 242 and Bibl. 19, p. 49.
- „ *melaviensis* Mart. — Eoc. Centr. Borneo, Bibl. 17, p. 214 and Bibl. 38, p. 304.
- „ *perfecta* Mouss. — Quart. S. Celebes, Bibl. 35, p. 277; recent.
- „ *preangerensis* Mart. — Neog. (?) Java, Bibl. 59, p. 243.
- „ *punctata* Lamk. — Plioc. Seran, Bibl. 14, p. 52; recent.

- Melania puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 41.
- „ *pyramis* (Benson) Reeve. — Nias, Bibl. 83, p. 251; recent.
- „ *samarangana* Mart. — Low. Mioc. Java, Bibl. 59, p. 321.
- „ *savinieri* Brot. — Quart. Java, Bibl. 19, p. 50; recent.
- „ *scabra* Müller. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 240; recent.
- „ *semicancellata* v. d. B. — ? Quart. S. Celebes, Bibl. 35, p. 277.
- „ *semigranosa* v. d. Busch. — Upp. Mioc. Java, Bibl. 30, p. 158; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 60; recent.
- „ *setigera* Brot. — Plioc. Java, Bibl. 59, p. 240 (prior); recent.
- „ *sindangbaranensis* Mart. — Mioc. Java, Bibl. 59, p. 321.
- „ *sitoliensis* Martin-Icke. — Quart. Nias, Bibl. 15, p. 243.
- „ *soloënsis* Mart. — Quart. (?) Java, Bibl. 59, p. 237.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 235 and Bibl. 19, p. 47.
- „ *subfossilis* H. Woodw. — Nias, Bibl. 83, p. 249.
- „ *sublactea* H. Woodw. — Nias, Bibl. 83, p. 251.
- „ *sumedangensis* Mart. — Neog. (?) Java, Bibl. 59, p. 238.
- „ *testudinaria* v. d. Busch. — Plioc. and Quart. Java, Bibl. 59, p. 236 and Bibl. 19, p. 50; recent.
- „ *tjariangensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 243.
- „ *tjemoroënsis* Mart. — Quart. (?) Java, Bibl. 59, p. 241; Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 61.
- „ *tornatella* Lea. — Mioc. (?) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 245 and Bibl. 19, p. 49; recent.
- „ *tuberculata* Müller. — Upp. Mioc., Plioc. (Sondé-beds) and Quart. Java, Bibl. 59, p. 238 and Bibl. 19, p. 50; Quart. S. Celebes, Bibl. 35, p. 277; recent.
- „ *verrucosa* Hinds. — Quart. Java, Bibl. 30, p. 159 and 338; Bibl. 59, p. 235 and Bibl. 19, p. 50; recent.
- „ *woodwardi* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 239; Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 60.
- Paludomus crassa* (Krause) Martin. — Eoc. Centr. Borneo, Bibl. 17, p. 214 and Bibl. 38, p. 310.
- „ *gracilis* (Krause) Martin. — Eoc. Centr. Borneo, Bibl. 17, p. 213 and Bibl. 38, p. 307.
- Terebripirena javana* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 205 and Bibl. 47, p. 46.

## FAM. LITORINIDAE.

- Litorina pintado* Wood. — Plioc. Seran, Bibl. 14, p. 43; recent.
- Tectarium songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 41.

## FAM. SOLARIIDAE.

- Solarium angsanatum* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 475.

- Solarium incisum* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 42.
- „ *javanum* Mart. — ? Mioc. Nias, Bibl. 83, p. 243; Upp. Mioc. Java, Bibl. 23, p. 74; Upp. Mioc. W. Sumatra, Bibl. 72, p. 161; Plioc. N. Sumatra, Bibl. 62, p. 5.
- „ *maximum* Phil. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 247 and Bibl. 19, p. 47 and 48; Plioc. N. Sumatra, Bibl. 62, p. 5; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 66; Plioc. Seran, Bibl. 14, p. 43; recent.
- „ *microdiscus* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 168.
- „ *perspectivum* Linn. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 26; Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 61, p. 8 and Bibl. 40, p. 52; Plioc. N. Sumatra, Bibl. 62, p. 5; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 65; Quart. Timor, Bibl. 4, p. 671; recent.
- „ *puruense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 168.
- „ *sedanense* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 248 and Bibl. 47, p. 159.
- „ *sokkohense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 256.
- „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 167.
- „ *spec. 4* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *spec. 5* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- Torinia deningeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 169.
- „ *perspectiviuncula* Chemn. — Quart. Celebes, Bibl. 69, p. 191; recent.

## FAM. HYDROBIIDAE.

*Bithynia truncata* Eyd. et Sow. — Quart. Java, Bibl. 19, p. 50; recent.

## FAM. PALUDINIDAE.

*Paludina javanica* v. d. Busch. — Quart. Java, Bibl. 59, p. 249 and Bibl. 19, p. 50 (prior); recent.

## FAM. AMPULLARIIDAE.

*Ampullaria ampullacea* Linn. — Quart. Java, Bibl. 19, p. 51; recent.

„ *scutata* Mouss. — Quart. Java, Bibl. 19, p. 50; recent.

## FAM. HIPPONYCIDAE.

*Mitularia equestris* Linn. — Plioc. Java, Bibl. 65<sup>2</sup>, p. 199; Quart. Timor, Bibl. 4, p. 671; recent.

## FAM. CAPULIDAE.

*Calyptraea tudung* Mart. — Upp. Tert. Java, Bibl. 59, p. 251 and Bibl. 70, p. 54.

- Capulus junghuhni* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6; Java (age unknown), Bibl. 59, p. 250.  
 „ *seranus* Fischer. — Plioc. Seran, Bibl. 14, p. 44.  
*Crepidula scutum* Mart.<sup>18)</sup> — Quart. Java, Bibl. 30, p. 169.  
*Crucibulum extinetorium* Lamk. — Plioc. Java, Bibl. 59, p. 250; recent.

## FAM. CYCLOSTOMIDAE.

- Cyclophorus coeloconus* Benson. — Plioc. Seran, Bibl. 14, p. 44; recent.

## FAM. XENOPHORIDAE.

- Xenophora agglutinans* Lamk. — ? Mioc. Nias, Bibl. 83, p. 246; recent.  
 „ *calculifera* Reeve. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 253 and Bibl. 19, p. 47; recent.  
 „ *dunkeri* Mart. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 253 and Bibl. 19, p. 49; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106 and 109.  
 „ *pallidula* Reeve. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 251; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106; recent.  
 „ *solariformis* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 73.  
 „ *subconica* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 70; Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 110.  
 „ *spec.* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 15.

## FAM. NARICIDAE.

- Vanikororia javana* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63<sup>a</sup>, p. 42.

## FAM. NATICIDAE.

- Ampullina bandongensis* Mart. — Low. Mioc. (Rembang- and Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 476.  
 „ *boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 173.  
 „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 173.  
*Nanggulania puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 174.  
*Natica alapapilionis* Chemn. — Plioc. Java, Bibl. 59, p. 255; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Seran, Bibl. 14, p. 46; recent.  
 „ *ampla* Phil. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 262 and Bibl. 19, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 6; recent.  
 „ *arntzenii* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 172.  
 „ *atricapilla* Mart. — Low. Mioc. Java, Bibl. 30, p. 167.  
 „ *aurantia* Lamk. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 263; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 72; recent.  
 „ *aurita* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 257.

- Natica bantamensis* Mart. — Plioc. Java, Bibl. 59, p. 261.
- „ *callosior* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 265 and Bibl. 47, p. 47.
- „ *celebensis* Schepman. — Quart. Celebes, Bibl. 69, p. 191.
- „ *chinensiformis* Mart.<sup>19)</sup>.
- „ *chinensis* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *dijki* Mart. — Upp. Mioc. Java, Bibl. 59, p. 267.
- „ *filosa* Sow. — Quart. Celebes, Bibl. 69, p. 192; recent.
- „ *flemingi* d'Arch. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 14.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 262 and Bibl. 19, p. 47 and 49.
- „ *globosa* Chemn. — Low. Mioc., Upp. Mioc. (Tjilanang-beds), Plioc. and Quart. Java, Bibl. 61, p. 9; Upp. Mioc. E. Borneo<sup>1)</sup>, Bibl. 71, p. 129; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 69; Plioc. S. W. New-Guinea, Bibl. 70, p. 27; recent.
- „ *jukesii* Reeve. — Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 265 and Bibl. 19, p. 47; recent.
- „ *lineata* Lamk. — Low. Mioc. (Rembang-beds) and Plioc. Java, Bibl. 59, p. 257 and Bibl. 47, p. 159 and p. 169; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106; Plioc. N. Sumatra, Bibl. 62, p. 6; recent.
- „ *mamilla* Linn. — Upp. Mioc. (Tjilanang-beds), Plioc. (Sondé-beds) and Quart. Java, Bibl. 59, p. 263, Bibl. 19, p. 47 and Bibl. 47, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 71; Quart. S. Celebes, Bibl. 35, p. 277; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *marochiensis* Gmel.<sup>19)</sup> — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 258, Bibl. 19, p. 47 and Bibl. 47, p. 21 and 47; Upp. Mioc. E. Borneo, Bibl. 51, p. 331; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 68 and Bibl. 30, p. 166 and 308; Plioc. Seran, Bibl. 14, p. 45; Quart. Celebes, Bibl. 69, p. 191; recent.
- „ *melanostoma* Gmel. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 266, Bibl. 19, p. 47 and 49 and Bibl. 47, p. 47; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 72; Plioc. Seran, Bibl. 14, p. 47; Quart. Celebes, Bibl. 69, p. 192; recent.
- „ *patulaeformis* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 13.
- „ *pellis tigrina* Chemn. — Upp. Mioc. (Tjilanang-beds) and Quart. Java, Bibl. 59, p. 255, Bibl. 47, p. 47 and Bibl. 63, p. 127; Plioc. N. Sumatra, Bibl. 62, p. 6; recent.
- „ *pieta* Recluz. — Quart. Celebes, Bibl. 69, p. 191; recent.
- „ *powisiana* Recluz. — Low. Mioc. (Rembang- and Njalindoeng-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 57, p. 476 and Bibl. 70, p. 50; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Seran, Bibl. 14, p. 47; recent.

- Natica pseudomutabilis* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 992 and Bibl. 55.
- „ *radians* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 46.
- „ *rostalina* Jenk. — Low. Mioc. (Rembang- and Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 475.
- „ *rufa* Born.<sup>20</sup>) — Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 260, Bibl. 19, p. 47 and Bibl. 47, p. 21, p. 47, p. 159 and p. 169; ? Upp. Mioc. Centr. Sumatra, Bibl. 84, p. 127; Upp. Mioc. E. Borneo, Bibl. 51, p. 331; Plioc. N. Sumatra, Bibl. 62, p. 6; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 69 and Bibl. 30, p. 164 and 308; Plioc. S. W. New-Guinea, Bibl. 70, p. 26; Plioc. Seran, Bibl. 14, p. 46; recent.
- „ *sigaretina* Lamk. — Lower Tertiary (Verbeek's stage  $\beta$ ), S. E. Borneo, Bibl. 1, p. 13.
- „ *sinensis* Lamk. — Quart. Celebes, Bibl. 69, p. 191; recent.
- „ *solida* Blainv. — ? Plioc. Java, Bibl. 47, p. 169; recent.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 257.
- „ *spirata* Lamk. — Lower Tertiary (Verbeeks stages ?  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 15.
- „ *sulcifera* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 262.
- „ *sultani* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 171.
- „ *tegalensis* Mart. — Plioc. Java, Bibl. 59, p. 266.
- „ *trisulcata* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 171.
- „ *vitellus* Linn.<sup>20</sup>) — Low. Mioc. (Rembang-beds), Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 261, Bibl. 19, p. 47 and 49, Bibl. 47, p. 159; Upp. Mioc. Nias, Bibl. 15, p. 244; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 70; Plioc. Seran, Bibl. 14, p. 45; recent.
- „ *wanneri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 172.
- „ *zebra* Lamk. — Low. Mioc. (Rembang- and West-Progo-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 258, Bibl. 53, p. 257, Bibl. 19, p. 47 and 49 and Bibl. 47, p. 159; Upp. Mioc. E. Borneo<sup>1</sup>), Bibl. 71, p. 129; Plioc. Seran, Bibl. 14, p. 45; recent.
- „ *spec.* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 74.
- „ *spec.* 6 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *spec.* 9 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *spec.* 12 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *spec.* Schepman. — Quart. Celebes, Bibl. 69, p. 191.
- „ *spec.* Siemon. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 28.
- Sigaretus fennemai* Mart. — Upp. Mioc. Java, Bibl. 59, p. 269.
- „ *inflatus* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 67.
- „ *javanus* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 80.

- Sigaretus laevigatus* Recl. — Plioc. Java, Bibl. 59, p. 268 and Bibl. 70, p. 52; Plioc. N. Sumatra, Bibl. 62, p. 6 and 15 (prior); Plioc. Timor, Bibl. 74<sup>2</sup>, p. 67; recent.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 174.
- „ *papilla* Chemn. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 269 and Bibl. 47, p. 47; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 68; recent.
- „ *planulatus* Recluz. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *undulatus* Mart. — Low. Mioc. Java, Bibl. 30, p. 168; Upp. Mioc. W. Sumatra, Bibl. 72, p. 161.
- „ *verbeeki* Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 108; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106.
- „ *spec. 1* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.

## FAM. RISSOIDAE.

- Rissoina serana* Fischer. — Plioc. Seran, Bibl. 14, p. 48.
- „ *trilirata* Fischer. — Plioc. Seran, Bibl. 14, p. 48.

## FAM. SCALARIIDAE.

- Scalaria alata* Sow. — Quart. Celebes, Bibl. 69, p. 192; recent.
- „ *carinifera* Mart. — Upp. Mioc. Java, Bibl. 30, p. 176.
- „ *elongata* Mart. — Mioc. Java, Bibl. 23, p. 76.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63<sup>a</sup>, p. 43.
- „ *minima* Mart. — Mioc. Java, Bibl. 23, p. 76.
- „ *molengraaffi* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 63.
- „ *samarangana* Mart. — Mioc. Java, Bibl. 30, p. 176.
- „ *verbeeki* Tesch. — Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>2</sup>, p. 62.
- „ *spec. 1* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *spec. 2* Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- „ *sp.* — Plioc. Seran, Bibl. 14, p. 49.

## FAM. EULIMIDAE.

- Eulima arcuata* Sow. — Quart. Celebes, Bibl. 69, p. 192; recent.
- „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 175.
- „ *lidacensis* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 65.
- „ *martinii* A. Ad. — Plioc. Seran, Bibl. 14, p. 51; recent.
- „ *polita* Linn. — Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 65.
- „ *sondeiana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 269.
- „ *tjaringinensis* Mart. — Plioc. Java, Bibl. 59, p. 270.
- „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 48.
- „ *spec. Schepman.* — Quart. Celebes, Bibl. 69, p. 192.
- Niso denticulata* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 175.

## FAM. PYRAMIDELLIDAE.

- Odontostomia jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 43.
- „ *ptychochilium* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 47.
- „ *vandijki* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 43.
- „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.
- Pyramidella bataviana* Mart. — Upp. Mioc. Java, Bibl. 30, p. 160; Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 64.
- „ *djunggranganensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 258.
- „ *junghuhni* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 321.
- „ *karangensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 271 and Bibl. 47, p. 47.
- „ *kelirensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 257.
- „ *menadensis* Schepmān. — Quart. Celebes, Bibl. 69, p. 192.
- „ *polita* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 176.
- „ *reticulata* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 271.
- „ *terebellum* Müller. — Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 64.
- „ *teres* Ad. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 63; Quart. Celebes, Bibl. 69, p. 192; recent.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 16.
- „ spec. 3 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 7 and 16.
- Turbonilla junghuhni* Mart. — Mioc. (?) Java, Bibl. 59, p. 322.
- „ *malayana* Fischer. — Plioc. Seran, Bibl. 14, p. 51.
- „ *nodosa* Mart. — Low. Mioc. Java, Bibl. 30, p. 161.
- „ *scalaris* Mart. — Low. Mioc. Java, Bibl. 30, p. 162.
- „ *sindangbaranensis* Mart. — Mioc. Java, Bibl. 59, p. 322.
- „ *splendida* Mart. — Upp. Mioc. Java, Bibl. 30, p. 161.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 6 and 15.

## FAM. NERITIDAE.

- Navicella suborbicularis* Sow. — Plioc. Seran, Bibl. 14, p. 42; recent.
- Nerita chamaeleon* Linn. var. *squammulata* Le Guill. — Plioc. (Sondé-beds) Java, Bibl. 19, p. 47; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 73; Plioc. Seran, Bibl. 14, p. 42; recent.
- „ *ickei* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 258.
- „ *plicata* Linn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 83.
- „ *polita* Linn. var. *rumphii* Recluz. — Mioc. and Plioc Java, Bibl. 23, p. 84 and Bibl. 19, p. 47; recent.
- „ *sucabumiana* Mart. — Low. Mioc. Java, Bibl. 59, p. 273.
- „ *undata* Linn. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 83; recent.



- Neritina brevispina* Lamk. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 273 and Bibl. 19, p. 49; recent.
- „ *eastoni* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 260.
- „ *jogjacartensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 259; Plioc. N. Sumatra, Bibl. 62, p. 5 and 15 mut. (?).
- „ *junghuhni* Mart. — Mioc. (?) Java, Bibl. 59, p. 323.
- „ *oualanensis* Lesson. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 323, Bibl. 47, p. 21 and p. 47 and Bibl. 63, p. 128.
- „ *pulligera* Linn. — Quart. S. Celebes, Bibl. 35, p. 277.
- „ *subfossilis* H. Woodw. — Mioc. Nias, Bibl. 83, p. 247.
- „ *tjidamarensis* Mart. — Mioc. Java, Bibl. 23, p. 84 and Bibl. 59, p. 273.
- „ *spec. Krause.* — Eoc. Centr. Borneo, Bibl. 17, p. 212.
- Velates rotundatus* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 177.

## FAM. NERITOPSIDAE.

- Neritopsis morrisianus* H. Woodw. — Mioc. Nias, Bibl. 83, p. 248.

## FAM. TURBINIDAE.

- Astraliium biseriale* Mart. — Mioc. Java, Bibl. 30, p. 178.
- „ *triumphator* Mart. — Upp. Mioc. Java, Bibl. 23, p. 72.
- „ *verbeeki* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 244.
- Phasianella histrio* Reeve. — Quart. Celebes, Bibl. 69, p. 193; recent.
- „ *oweni* d'Arch. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 72.
- „ *teschi* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 260.
- Turbo borneënsis* Boettg.<sup>21</sup>)
- „ *deningeri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 261.
- „ *djunggranganensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 260.
- „ *fennemai* Schepman. — Quart. Celebes, Bibl. 69, p. 194.
- „ *fossulifer* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 44.
- „ *granifer* Mart. — Mioc. Java, Bibl. 30, p. 184.
- „ *marmoratus* Linn. — Quart. Celebes, Bibl. 69, p. 194; recent.
- „ *martinianus* H. Woodw. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 111.
- „ *obliquus* Jenk.<sup>21</sup>) — Low. Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 11; Upp. Tert. Celebes, Bibl. 10, p. 1005 and Bibl. 55; Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 71; ? Plioc. Java, Bibl. 70, p. 48.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 275 and Bibl. 47, p. 159; Plioc. N. Sumatra, Bibl. 62, p. 5 and 14 (mut.).

- Turbo paucicingulatus* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 12.
- „ *petholatus* Linn. — Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 274 and Bibl. 47, p. 51; Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 77; Quart. Celebes, Bibl. 69, p. 194; Quart. Timor, Bibl. 35, p. 280; recent.
- „ *setosus* Gmel. — ? Mioc. Nias, Bibl. 83, p. 246; recent.
- „ *smithi* H. Woodw. — Mioc. Java, Bibl. 30, p. 183; Mioc. Nias, Bibl. 83, p. 242; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106.
- „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 275 and Bibl. 19, p. 47.
- „ *ticaonicus* Reeve. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *versicolor* Gmel. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 276; Plioc. Seran, Bibl. 14, p. 38; recent.
- „ *spec. H.* Woodw. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 72.

## FAM. TROCHIDAE.

- Calliostoma butacianum* Mart. — Low. Mioc. (Reimbang-beds) Java, Bibl. 59, p. 280 and Bibl. 47, p. 159.
- Cantharidus djiki* Mart. — Mioc. Java, Bibl. 30, p. 179.
- „ *giliberti* Montr. — Quart. Celebes, Bibl. 69, p. 195; recent.
- Eumargarita angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 477.
- „ *spec. 1* Mart. — Plioc. N. Sumatra. Bibl. 62, p. 5 and 15.
- Gibbula callifera* Lamk. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ *njalindungensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 57, p. 476.
- „ *nodifera* Mart. — Upp. Mioc. Java, Bibl. 30, p. 180.
- „ *wanneri* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 75.
- Monodonta hardi* Mart. — Upp. Mioc. (?) Java, Bibl. 23, p. 73.
- „ *junghuhni* Mart. — Mioc. Java, Bibl. 59, p. 323.
- „ *labio* Linn. — Plioc. Java, Bibl. 47, p. 169; recent.
- Trochus acutangulus* Chemn. — Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 74; recent.
- „ *acutus* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *alfuricus* Fischer. — Plioc. Seran, Bibl. 14, p. 40.
- „ *bomasensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 261.
- „ *crebrigranatus* Reeve. — Quart. Celebes, Bibl. 69, p. 195; recent.
- „ *fastigiatus* Adams. — Quart. Celebes, Bibl. 69, p. 195; recent.
- „ *insulindae* Fischer. — Plioc. Seran, Bibl. 14, p. 40.
- „ *jububiformis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 277.
- „ *lucasi* Brongniart<sup>2</sup>).
- „ *maculatus* Lamk. — Plioc. Java, Bibl. 19, p. 49; Quart. Timor, Bibl. 35, p. 280; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *maximus* Koch. — Quart. Billiton, Bibl. 26, p. 20; recent.

- Trochus neglectus* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 278 and Bibl. 47, p. 52.
- „ *niloticus* Linn. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 15; recent.
- „ *noduliferus* Lamk. — Quart. Timor, Bibl. 35, p. 280; recent.
- „ *padangensis* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 73 and Bibl. 80<sup>2</sup>, p. 24; ? Plioc. Java, Bibl. 70, p. 47.
- „ *radiatus* Gmel. — Upp. Mioc. Java, Bibl. 23, p. 72; recent.
- „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 279.
- „ *sphaericus* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 76.
- „ *submamillus* H. Woodw. — Mioc. Nias, Bibl. 83, p. 242.
- „ *tjilonganensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 279; Plioc. or Quart. Timor, Bibl. 74<sup>2</sup>, p. 74.
- „ *triseriatus* Lamk. — Mioc. and Plioc. Java, Bibl. 30, p. 177 and and Bibl. 19, p. 49 (prior); recent.
- „ *unedo* A. Ad. — Plioc. Seran, Bibl. 14, p. 39; recent.
- „ *woodwardi* Mart. — Upp. Mioc. Java, Bibl. 29, p. 253.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 15.
- „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 50.
- „ sp. sp. Martin-Ieke. — Upp. Mioc. Nias, Bibl. 15, p. 245.
- Umbonium vestiarum* Lamk. — Plioc. Java, Bibl. 70, p. 40; recent.

## FAM. DELPHINULIDAE.

- Delphinula fossilis* Mart. <sup>22</sup>).
- „ *laciniata* Lamk. <sup>22</sup>) — Upp. Mioc. Java, Bibl. 59, p. 281 and Bibl. 47, p. 52; Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 112; Quart. Soemba, Bibl. 4, p. 673; recent.
- „ *laciniata* Lamk. var. *atrata* Chemn. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 78; recent.
- „ *permodesta* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 178.
- „ *sphaerula* Kiener. — Upp. Mioc. Java, Bibl. 30, p. 180; recent.
- Liotia angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 57, p. 477 and Bibl. 63, p. 128.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.
- „ spec. 2 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.

## FAM. CYCLOSTREMATIDAE.

- Cyclostrema martini* Fischer. — Plioc. Seran, Bibl. 14, p. 41.
- Tinostoma jogjacartense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 178.

## FAM. FISSURELLIDAE.

- Emarginula* sp. — Plioc. Java, Bibl. 19, p. 47.
- Seutus corrugatus* Reeve. — Plioc. Java, Bibl. 19, p. 47; recent.
- „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 51.

## FAM. PATELLIDAE.

- Patella autochroa* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 52.  
 „ *deformis* Mart. — Neog. Java, Bibl. 29, p. 236.  
 „ *hochstetteri* Mart. — Mioc. Java, Bibl. 23, p. 86.  
 „ *reussi* Mart. — Mioc. Java, Bibl. 23, p. 87.

## Class LAMELLIBRANCHIATA.

## Order TETRABRANCHIA.

## FAM. OSTREIDAE.

- Ostrea archiaci* Bell. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 55.  
 „ *baribisiana* Mart. — Plioc. (?) Java, Bibl. 59, p. 340.  
 „ *bataviana* Mart. — Upp. Mioc. Java, Bibl. 59, p. 333.  
 „ *bomasensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 263.  
 „ *chlamydoides* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 480.  
 „ *crista galli* Chemn. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *cucullata* Born. — Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 87; Quart. Java, Bibl. 59, p. 338; recent.  
 „ *disciformis* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 335; Bibl. 61, p. 3; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 86, Bibl. 4, p. 668 and 669; Quart. Celebes, Bibl. 69, p. 202.  
 „ *djuvanaënsis* Mart. — ? Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 20; Low. Mioc. (Rembang-beds) and Plioc. Java, Bibl. 59, p. 334; Plioc. Seran, Bibl. 14, p. 115; Plioc. (?) Aroe-Islands, Bibl. 8, p. 56.  
 „ *folium* Gmel. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 339; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 89; recent.  
 „ *glomerata* Gould. — Quart. Java, Bibl. 59, p. 337; Quart. Timor, Bibl. 74<sup>2</sup>, p. 87; recent.  
 „ *hyotis* Linn. — Neog. Madoera, Bibl. 5, p. 361; Low. Mioc. and Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 90 and Bibl. 80<sup>2</sup>, p. 77; Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 59, p. 339 (prior); Plioc. Timor, Bibl. 74<sup>2</sup>, p. 88 and Bibl. 4, p. 669; Plioc. Seran, Bibl. 14, p. 116; recent.  
 „ *incisa* Mart. — Upp. Mioc. (?) and Quart. Java, Bibl. 30, p. 275; Plioc. Timor, Bibl. 4, p. 668 and 669, Bibl. 30, p. 275 and 308 and Bibl. 35, p. 279.  
 „ *jogjacartensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 182.  
 „ *junghuhni* Mart. — Upp. Mioc. Java, Bibl. 59, p. 340.  
 „ *lacerans* Hanley. — Upp. Mioc. and Quart. Java, Bibl. 30, p. 276; recent.

- Ostrea lingua* Sow. — Neog. Madoera (?), Bibl. 5, p. 361; Mioc. (Njalindoeng- and Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 336 and 479.
- „ *longifolium* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 481.
- „ *monetalis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 44.
- „ *njalindoengensis* Mart. — Low. Mioc. (Njalindoeng-beds) and ? Plioc. Java, Bibl. 59, p. 480 and Bibl. 70, p. 50.
- „ *pileosimilis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 44.
- „ *promensis* Noetling. — Low. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 335.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 182.
- „ *radiata* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 125; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 88 and Bibl. 4, p. 669; recent.
- „ *rilarimella* Desh. — ? Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Bornéo, Bibl. 1, p. 55.
- „ *simoënsis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 341.
- „ *spolongensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 263.
- „ *sultani* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 181.
- „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 77.
- „ *spec. Martin.* — Upp. Mioc. W. Sumatra, Bibl. 24, p. 94.

## FAM. ANOMIIDAE.

- Anomia boettgeri* Mart. — Plioc. Java, Bibl. 59, p. 342.
- „ *fufana* Fischer. — Plioc. Seran, Bibl. 14, p. 115.
- „ *sol* Reeve. — Plioc. Java (?), Bibl. 30, p. 270; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 89; recent.
- „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 481.
- „ *verbeeki* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 94; ? Plioc. Timor, Bibl. 74<sup>2</sup>, p. 89; Plioc. Seran, Bibl. 14, p. 115.
- Placuna mandirantjanensis* Mart. — Neog. Java, Bibl. 59, p. 343.
- „ *placenta* Linn. — Upp. Mioc., Plioc. and Quart. Java, Bibl. 59, p. 342; Upp. Mioc. W. Sumatra, Bibl. 24, p. 93; Plioc. Timor, Bibl. 4, p. 668 and 669; Quart. Celebes, Bibl. 69, p. 202; recent.
- „ *pseudoplacenta* Mart. — Plioc. Java, Bibl. 59, p. 342.
- „ *sella* Gmel. — Plioc. Java (?), Bibl. 59, p. 344; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 90; Bibl. 30, p. 272 and 308 and Bibl. 35, p. 279; Quart. Celebes, Bibl. 69, p. 202; Quart. Soemba, Bibl. 4, p. 673; Quart. Billiton, Bibl. 26, p. 20; recent.

## FAM. DIMYIDAE.

*Deuteromya plana* Mart. — Mioc. Java, Bibl. 59, p. 344.

## FAM. SPONDYLIDAE.

- Plicatula granosa* Mart. — Mioc. Java, Bibl. 30, p. 267.  
 „ *imbricata* Menke. — Quart. Java, Bibl. 59, p. 345.  
 „ *quinqueplicata* Mart. — Upp. Mioc. Java, Bibl. 59, p. 345.  
 „ *rostrata* Mart. — Upp. Mioc. Java, Bibl. 59, p. 345; Quart. Timor, Bibl. 4, p. 671.  
*Spondylus aculeatus* Chemn. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *ducalis* Chemn. — Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *ferreolensis* Fontannes. — ? Plioc. S. W. New-Guinea, Bibl. 70, p. 19.  
 „ *foliaceus* Chemn. — ? Upp. Mioc. Java, Bibl. 59, p. 345; Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *imperialis* Chenu. — Plioc. (?) Java, Bibl. 29, p. 240; recent.  
 „ *minor* A. Böhm. — Neog. Madoera, Bibl. 5, p. 370.  
 „ *ornatissimus* A. Böhm. — Neog. Madoera, Bibl. 5, p. 369.  
 „ *pacificus* Reeve. — Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *radians* Lamk. — Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *rambalianus* Mart. — Java (age unknown), Bibl. 59, p. 345.  
 „ *rarispinga* Desh. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 54; Low. Mioc. W. Sumatra, Bibl. 80<sup>a</sup>, p. 89.  
 „ *sondeianus* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 346.  
 „ *symmetros* Mart. — Neog. Java, Bibl. 30, p. 269.  
 „ *sp. sp.* Siemon. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 20.

## FAM. LIMIDAE.

- Lima fasciata* Linn. — Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *squamosa* Lamk. — Plioc. (?) Java, Bibl. 59, p. 346; Quart. Celebes, Bibl. 69, p. 202; recent.  
 „ *tjaringinensis* Mart. — Plioc. Java, Bibl. 59, p. 347.  
 „ *spec.* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 92.

## FAM. PECTINIDAE.

- Aequipecten abendanoni* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 997 and Bibl. 55.  
*Amussium decemcostatum* Mart. — Mioc. Java, Bibl. 30, p. 265.  
 „ *hulshofi* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 349; Plioc. (?) Aroe-Islands, Bibl. 8, p. 60.  
 „ *noduliferum* Mart. — Low. Mioc. Java, Bibl. 30, p. 265.  
 „ *obliteratum* Lamk. — Quart. Celebes, Bibl. 69, p. 201; recent.  
 „ *placunoides* Mart. — Mioc. Java, Bibl. 29, p. 239.  
 „ *pleuronectus* Linn. — Plioc. Java, Bibl. 30, p. 265; Plioc. Seran, Bibl. 14, p. 113; Quart. Celebes, Bibl. 69, p. 201; recent.  
 „ *scrobiculatum* Schepman. — Quart. Celebes, Bibl. 69, p. 201.

- Chlamys amaliae* Kobelt. — Quart. Celebes, Bibl. 69, p. 202; recent.
- „ *angsanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 482
- „ *asper* Sow. — Middle Mioc. Nias, Bibl. 83, p. 224; recent.
- „ *bouei* d'Arch. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 52.
- „ *bouei* d'Arch. prior sumatrana Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 88 and ?Bibl. 80<sup>2</sup>, p. 29.
- „ *celebensis* Schepman. — Quart. Celebes, Bibl. 69, p. 199.
- „ *crassicostatus* Sow. — Quart. Celebes, Bibl. 69, p. 199; recent.
- „ *exaratus* Mart. — Neog. Java, Bibl. 23, p. 122.
- „ *favrei* d'Arch. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 50.
- „ *fenestratus* Mart. — Plioc. Timor, Bibl. 30, p. 264 and 308.
- „ *fritschi* Boettg. — Low. Mioc. S. Sumatra, Bibl. 80<sup>1</sup>, p. 97.
- „ *frondosus* Mart. — Upp. Mioc. Java, Bibl. 30, p. 264.
- „ *gracilisquamosa* Fischer. — Plioc. Seran, Bibl. 14, p. 114.
- „ *helenae* Boettg. — Low. Mioc. S. Sumatra, Bibl. 80<sup>1</sup>, p. 96.
- „ *hopkinsi* d'Arch. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 52.
- „ *kebolintangensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 352.
- „ *leopardus* Reeve. — Neog. Madoera, Bibl. 5, p. 361; Mioc. and Plioc. (?) Java, Bibl. 29, p. 239; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 90 and Bibl. 4, p. 671; recent.
- „ *multiramis* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 88 and Bibl. 80<sup>2</sup>, p. 29; Low. Mioc. S. Sumatra, Bibl. 80<sup>2</sup>, p. 95.
- „ *palliolum* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>2</sup>, p. 30.
- „ *pallium* Linn. — Low. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 236; Quart. Celebes, Bibl. 69, p. 199; Quart. Soemba, Bibl. 4, p. 673; recent.
- „ *quadriliratus* Lischke. — Plioc. Seran, Bibl. 14, p. 114; recent.
- „ *radula* Lamk. — Quart. Billiton. Bibl. 26, p. 20; recent.
- „ *rete* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 50.
- „ *rutteni* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 182.
- „ *sedanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 352.
- „ *senatorius* Gmel. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 18; Low. Mioc. (Rembang- and West-Progo-beds), Upp. Mioc., Plioc. (Sondé-beds) and Quart. Java, Bibl. 53, p. 263; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 91, Bibl. 30, p. 262 and 308 and Bibl. 4, p. 671; Plioc. (?) Aroe Islands, Bibl. 8, p. 58; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *senatorius* Gmel. var. *miniacea*. Lamk. — Plioc. (?) Aroe Islands, Bibl. 8, p. 58; recent.
- „ *spectabilis* Reeve. — Quart. Celebes, Bibl. 69, p. 201; recent.
- „ *squamosus* Gmel. — Quart. Celebes, Bibl. 69, p. 199; recent.

- Chlamys subarcuatus* Boettg. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 53.  
 „ *subplicatus* Sow. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 353; recent.  
 „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 483.  
 „ *tigris* Lamk. — Quart. Celebes, Bibl. 69, p. 199; recent.  
 „ *tjaringinensis* Mart. — ? Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 19; Low. Mioc. (Njalindoeng-beds) and Plioc. Java, Bibl. 59, p. 482; ? Plioc (?) Aroe Islands, Bibl. 8, p. 59.  
 „ *wilhelminae* Bavay. — ? Plioc (?) Aroe Islands, Bibl. 8, p. 60; recent.  
 „ *spec.* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 51.  
 „ *spec.* Martin. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 92.  
 „ *sp. sp.* Simon. — Upp. Tert., Bibl. 70, p. 43 and 53.  
 „ *sp. sp.* H. Woodw. — Low. Mioc. Centr. Sumatra, Bibl. 83, p. 211; Middle Mioc. Nias, Bibl. 83, p. 218.  
*Vola gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 354.  
 „ *javana* Mart. — Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 355; Upp. Mioc. S. Sumatra, Bibl. 84, p. 106; Plioc. Seran, Bibl. 14, p. 113.  
 „ *singkiensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 354.

## FAM. AVICULIDAE.

- Avicula crocea* Lamk. — Plioc. Seran, Bibl. 14, p. 112; recent.  
 „ *peregrina* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 48.  
*Perna spec.* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 483.  
 „ *spec.* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 97.  
*Pinna rembangensis* Mart. — Low. Mioc. (Rembang- and West-Progo-beds) Java, Bibl. 59, p. 357 and Bibl. 63, p. 128.  
 „ *vexillum* Born. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 59, p. 357; Quart. Timor, Bibl. 74<sup>2</sup>, p. 91; recent.

## FAM. MYTILIDAE.

- Lithodomus affinis* Mart.<sup>23</sup>) — Low. Mioc. (West-Progo-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 53, p. 264; Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 86 and Bibl. 80<sup>2</sup>, p. 28.  
 „ *gracilis* Phil. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 92; recent.  
 „ *obesus* Phil. — ? Plioc. Java, Bibl. 65<sup>2</sup>, p. 206; recent.  
 „ *verbeeki* Boettg.<sup>28</sup>)  
*Lithophagus affinis* Boettg.<sup>28</sup>).



- Modiola balongensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 44.
- „ *barbatiaeformis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 264.
- „ *martini* Schepman. — Quart. Celebes, Bibl. 69, p. 198.
- „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 264.
- „ *toechophora* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 75.
- Mytilus javanus* Mart. — Mioc. Java, Bibl. 59, p. 357.
- „ *ovatus* Mart. — Mioc. Java, Bibl. 23, p. 121.
- „ *smaragdinus* Chemn. — ? Neog. Java, Bibl. 59, p. 358; recent.
- Septifer bilocularis* Linn. — Neog. Java, Bibl. 29, p. 241 and 256 and Bibl. 70, p. 44; recent.
- „ *lingua* Mart. — Mioc. Java, Bibl. 23, p. 121.

## FAM. ARCIDAE.

- Arca allodebilis* Fischer. — Plioc. Seran, Bibl. 14, p. 118.
- „ *antiquata* Linn.<sup>25</sup>) — Mioc. Saonek besar, Bibl. 4, p. 674; Low. Mioc. (Njalindoeng-beds), Upp. Mioc. (Tjilanang-beds), Plioc. (Sondé-beds) and Quart. Java, Bibl. 59, p. 369, 371 and 483, Bibl. 63, p. 128, Bibl. 70, p. 54 and Bibl. 66, p. 109; Quart. Celebes, Bibl. 69, p. 197; Quart. Timor, Bibl. 4, p. 671; Quart. Billiton, Bibl. 26, p. 20.
- „ *axinaea* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 73.
- „ *bataviana* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 364; Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>2</sup>, p. 98; Upp. Mioc. W. Sumatra, Bibl. 72, p. 160.
- „ *biformis* Mart. — Upp. Mioc. and Plioc. (Sondé-beds) Java, Bibl. 59, p. 377; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 94; Plioc. Seran, Bibl. 14, p. 118.
- „ *bistrigata* Dkr. — Plioc. and Quart. Java, Bibl. 59, p. 361.
- „ *burnesi* d'Arch. — Upp. Mioc. Nias, Bibl. 15, p. 246; Plioc. Java, Bibl. 30, p. 245; Plioc. and Quart. Timor, Bibl. 4, p. 668, Bibl. 74<sup>2</sup>, p. 97, Bibl. 30, p. 245 and 308 and Bibl. 35, p. 280.
- „ *compressa* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 365; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 98 and Bibl. 30, p. 252 and 308; Plioc. Seran, Bibl. 14, p. 117.
- „ *cornea* Reeve. — Plioc. and Quart. Timor, Bibl. 4, p. 668 and 669 and Bibl. 74<sup>2</sup>, p. 96; Quart. Java, Bibl. 59, p. 379; recent.
- „ *debilis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 30, p. 260.
- „ *decussata* Sow.<sup>24</sup>) — ? Plioc. Java, Bibl. 65<sup>3</sup>, p. 206; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 98 and Bibl. 66, p. 108; recent.
- „ *djadjariensis* Mart. — Plioc. Java, Bibl. 59, p. 365 and Bibl. 70, p. 50.

- Arca eusphaera* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 72.
- „ *fennemai* Mart. <sup>25</sup>).
- „ *ferruginea* Reeve. — Plioc. (?) Java, Bibl. 59, p. 366; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 93; recent.
- „ *foliata* Forsk. <sup>24</sup>).
- „ *fusca* Brug. — Upp. Mioc. Nias, Bibl. 15, p. 246; Quart. Celebes, Bibl. 69, p. 198; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *fuscoides* Mart. — Mioc. Java, Bibl. 29, p. 244.
- „ *gembacana* Mart. — Mioc. Java, Bibl. 30, p. 254.
- „ *gendinganensis* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 381.
- „ *geyleri* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 111.
- „ *gibba* Mart. — Mioc. Java, Bibl. 59, p. 363; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 73; recent, Bibl. 66, p. 108.
- „ *granifera* Mart. — Mioc. Java, Bibl. 30, p. 259.
- „ *granosa* Linn. — Mioc. (?) Plioc. and Quart. Java, Bibl. 29, p. 242; Upp. Mioc. E. Borneo <sup>1</sup>), Bibl. 71, p. 128; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 92, Bibl. 4, p. 668, Bibl. 30, p. 242 and 308 and Bibl. 35, p. 279; recent.
- „ *hybrida* Sow. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 47.
- „ *incerta* Mart. — Neog. Java, Bibl. 29, p. 243.
- „ *hulshofi* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 376.
- „ *inaequivalvis* Brug. — Plioc. Java, Bibl. 59, p. 373, Bibl. 61, p. 4 and Bibl. 70, p. 52; recent.
- „ *javana* Mart. — Upp. Mioc. Java, Bibl. 59, p. 362.
- „ *jousseaumi* Lamy. — Plioc. Java, Bibl. 65<sup>2</sup>, p. 199; recent.
- „ *junghuhni* Mart. <sup>25</sup>).
- „ *kannegieteri* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 247.
- „ *kelirensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 265.
- „ *kroënsis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 96.
- „ *kroënsis* Boettg. *prior subcarinata* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 101.
- „ *lucinaeformis* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 47.
- „ *malaiana* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 265.
- „ *melaviensis* Mart. — Eoc. Centr. Borneo, Bibl. 17, p. 207 and 212 and Bibl. 38, p. 292.
- „ *menengtengana* Mart. — Plioc. (Sondé-beds) Java, Bibl. 59, p. 378; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 95.
- „ *molengraaffi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 184.

- Arca multiformis* Mart. — ? Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 21; Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 483.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 183.
- „ *nannodes* Mart. — Upp. Mioc. Java, Bibl. 30, p. 255; Plioc. Timor, Bibl. 4, p. 668.
- „ *navicularis* Brug. — Mioc. Java, Bibl. 30, p. 258 (prior); Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *nodosa* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 483; Upp. Mioc. W. Sumatra, Bibl. 24, p. 91; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 94; Quart. Celebes, Bibl. 69, p. 198.
- „ *obliquata* Gray. — Plioc. Java, Bibl. 59, p. 364.
- „ *obliquidens* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 95.
- „ *oblonga* Phil. — Upp. Mioc. (Tjilanang-beds), Plioc. and Quart. Java, Bibl. 59, p. 366 and Bibl. 70, p. 50; recent.
- „ *palabuanensis* Mart. — Upp. Mioc. Java, Bibl. 59, p. 382.
- „ *pangkaënsis* Mart. — Plioc. Java, Bibl. 59, p. 372.
- „ *philippiana* Dunkr. — Quart. Celebes, Bibl. 69, p. 198; recent.
- „ *preangerensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 371.
- „ *pseudoantiquata* Mart. — Neog. Java, Bibl. 29, p. 242.
- „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 363.
- „ *rhombea* Born. — Plioc. and Quart. Java, Bibl. 59, p. 368; Quart. Celebes, Bibl. 69, p. 197; recent.
- „ *rustica* Mart. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 96, Bibl. 30, p. 248 and 308 and Bibl. 35, p. 279.
- „ *scapha* Chemn.<sup>25</sup>).
- „ *sedanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 381.
- „ *semitorta* Lamk. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 99; recent.
- „ *singularis* Mart. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 93 and Bibl. 30, p. 247 and 308; Plioc. Seran, Bibl. 14, p. 118.
- „ *sinuata* Mart. — Quart. Java, Bibl. 30, p. 257.
- „ *suboblonga* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 71.
- „ *subtrigonalis* Mart. — Mioc. Java, Bibl. 30, p. 261.
- „ *sumatrana* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 91.
- „ *sundaiana* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 266.
- „ *tambacana* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 59, p. 367 and Bibl. 61, p. 4.
- „ *tegalensis* Mart. — Plioc. Java, Bibl. 59, p. 374.
- „ *tjaringinensis* Mart. — Plioc. Java, Bibl. 59, p. 372.
- „ *tjidamarensis* Mart. — Mioc. Java, Bibl. 23, p. 117; Upp. Mioc. Nias, Bibl. 15, p. 247.

- Arca tjilanangensis* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 59, p. 380.
- „ *trapeziformis* Mart. — Mioc. Java, Bibl. 59, p. 365; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 74.
- „ *verbeeki* H. Woodw. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 70; Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 121.
- „ spec. 2 Mart. — Plioc. Java, Bibl. 61, p. 3.
- „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 74.
- „ sp. sp. Siemon. — Upp. Tert. S. W. New-Guinea, Bibl. 70, p. 22; Upp. Tert. Java, Bibl. 70, p. 45 and 53.
- Axinaea angasanana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 484.
- „ *angulata* Lamk. — Plioc. Seran, Bibl. 14, p. 119; recent.
- „ *dunkeri* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 184.
- „ *gembacana* Mart. — Mioc. Java, Bibl. 30, p. 236.
- „ *junghuhni* Mart. — Upp. Mioc. and Plioc. (?) Java, Bibl. 23, p. 119.
- „ *orbicularis* Mart. — Mioc. Java, Bibl. 30, p. 234.
- „ *pectiniformis* Lamk. — Mioc. Java, Bibl. 30, p. 237 (prior); recent.
- „ *puruensis* Mart. — Upp. Eoc. (Nanggoelan-beds), Java, Bibl. 52, p. 186.
- Cucullaea auriculifera* Lamk. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 106; recent.
- „ *pachygastris* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 110.
- „ *pamotanensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 59, p. 385.
- „ *sindangbaranensis* Mart. — Mioc. Java, Bibl. 59, p. 383.
- Limopsis fenestrata* Mart. — Low. Mioc. Java, Bibl. 30, p. 238; Upp. Mioc. or Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 99.
- „ *ovata* Mart. — Mioc. Java, Bibl. 30, p. 239.
- „ *perobliqua* Mart. — Mioc. Java, Bibl. 30, p. 238.
- „ *venusta* Mart. — Mioc. (?) and Plioc. Java, Bibl. 30, p. 240; Plioc. Seran, Bibl. 14, p. 120.
- Pectunculus* spec. Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 120.

## FAM. NUCULIDAE.

- Leda alata* Mart. — Upp. Mioc. Java, Bibl. 30, p. 228 and Bibl. 56, fig. 4.
- „ *alfurica* Fischer. — Plioc. Seran, Bibl. 14, p. 116.
- „ *dijki* Mart. — Mioc. Java, Bibl. 30, p. 232.
- „ *navicularis* Mart. — Low. Mioc. Java, Bibl. 30, p. 228.
- „ *praeradiata* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 69.
- „ *radiata* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 266.

- Leda radiatelirata* Fischer. — Plioc. Seran, Bibl. 14, p. 117.  
 „ *subquadrata* Mart. — Plioc. Java, Bibl. 30, p. 234.  
 „ *subtrigonalis* Mart. — Mioc. Java, Bibl. 30, p. 234.  
 „ *transversa* Martin. — Plioc. (?) Java, Bibl. 30, p. 233.  
 „ *virgo* Mart. — Upp. Mioc. Java, Bibl. 23, p. 113; Upp. Mioc. W. Sumatra, Bibl. 72, p. 160.  
*Nucula njalindungensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 56, p. 113 and Bibl. 63, p. 128.  
 „ *rembangensis* Mart. — Low. Mioc. (Rembang-beds) Java, Bibl. 56, p. 113.  
 „ *studerii* d'Arch. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 46.  
 „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 95.  
 „ *spec. Boettg.* — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 45.

## FAM. UNIONIDAE.

- Unio productus* Mouss. prior *normalis* Mouss. — Quart. Java, Bibl. 48, p. 52; recent.  
 „ *trinilensis* Dubois. — Quart. Java, Bibl. 11b, p. 1249.

## FAM. CARDITIDAE.

- Cardita arcaiformis* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 45.  
 „ *boettgeri* Mart. — Plioc. Java, Bibl. 23, p. 111.  
 „ *borneënsis* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 44.  
 „ *decepiens* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 30, p. 110.  
 „ *elegantula* Desh. — Upp. Mioc. Java, Bibl. 30, p. 230; Upp. Mioc. W. Sumatra, Bibl. 72, p. 160; Plioc. Timor, Bibl. 30, p. 230 and 308; recent.  
 „ *exporrecta* Mart. — Mioc. Java, Bibl. 30, p. 231.  
 „ *hillegondae* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 186.  
 „ *javana* Mart. — Upp. Mioc. Java, Bibl. 23, p. 111 and Bibl. 30, p. 230; Plioc. Seran, Bibl. 14, p. 121.  
 „ *phrenetica* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *sulcata* Brug. — Plioc. Timor (?), Bibl. 74<sup>2</sup>, p. 100; Plioc. Seran, Bibl. 14, p. 120; recent.  
 „ *sumatrensis* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 221.  
 „ *tjidamarensis* Mart. — Mioc. Java, Bibl. 23, p. 112 and Bibl. 56, p. 114.  
 „ *vasta* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 94.  
 „ *veretrapezoides* Gregorio. — ? Upp. Tert. Celebes, Bibl. 10, p. 995 and Bibl. 55.

*Cardita* sp. sp. Boettg. — Low. and Upp. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 64, 85 and 110.

„ sp. H. Woodw. — Low. Mioc. Centr. Sumatra, Bibl. 83, p. 212.

FAM. CRASSATELLIDAE.

*Crassatella* amputata Mart. — Mioc. Java, Bibl. 30, p. 229.

„ parva Mart. — Upp. Mioc. Java, Bibl. 23, p. 109.

„ radiata Sow. — Plioc. and Quart. Java, Bibl. 30, p. 227; recent.

„ spec. Siemon. — Plioc. S. W. New-Guinea, Bibl. 70, p. 23.

FAM. ERYCINIDAE.

*Pythina* semperi Jenk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 16, p. 61.

*Erycina* spec. Siemon. — Upp. Tert. Java, Bibl. 70, p. 53.

FAM. GALEOMMIDAE.

*Hindsiella* dubia Mart. — Java (age unknown), Bibl. 23, p. 109 and Bibl. 56, p. 35.

FAM. TRIDACNIDAE.

*Tridacna* gigas Linn. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 119; Quart. (?) Celebes, Bibl. 10, p. 1015 and Bibl. 55; recent.

„ rudis Reeve. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 119; recent.

„ squamosa Lamk. — Quart. Celebes, Bibl. 69, p. 197; recent.

FAM. CARDIIDAE.

*Cardilia* spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 63.

*Cardium* alfuricum Fischer. — Plioc. Seran, Bibl. 14, p. 123.

„ angulatum Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.

„ anomalum Math. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 40.

„ arcaeforme Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 108.

„ asiaticum Brug. — Upp. Mioc. Java, Bibl. 23, p. 105; Upp. Mioc. W. Sumatra, Bibl. 24, p. 90; Upp. Mioc. S. Sumatra, Bibl. 84, p. 109; recent.

„ automolos Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 268.

„ biarmatum Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>2</sup>, p. 26.

„ bicolor Sow. — Quart. Celebes, Bibl. 69, p. 197; recent.

„ bomasense Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 269.

„ celebensis Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 997 and Bibl. 55.

- Cardium deplanatum* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 39.
- „ *djunggranganense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 267.
- „ *dupuchense* Reeve. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 106; recent.
- „ *eduliforme* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 38.
- „ *elongatum* Brug. — ?Java (age unknown), Bibl. 29, p. 245; recent.
- „ *greenoughi* d'Arch. et Haim. — Mioc. Java, Bibl. 29, p. 247.
- „ *guichardi* Bernardi. — Plioc. Seran, Bibl. 14, p. 122; recent.
- „ *jogjacartense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 269.
- „ *kelirensense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 268.
- „ *limaeforme* d'Arch. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 41.
- „ *loxotenes* Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 118.
- „ *niasense* Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 119.
- „ *njalindungense* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 485 and Bibl. 63, p. 129.
- „ *papyraceum* Chemn. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *parvulum* Mart. — Upp. Mioc. Java, Bibl. 23, p. 107 and Bibl. 56, p. 114.
- „ *perobliquum* Mart. — Mioc. Java, Bibl. 29, p. 246.
- „ *rugosum* Lamk. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 246; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *sinense* Sow. — Plioc. (?) Java, Bibl. 30, p. 224; recent.
- „ *sokkohense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 267.
- „ *spolongense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 266 and Bibl. 63, p. 129.
- „ *subangustum* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>2</sup>, p. 83.
- „ *subfragile* Boettg. — Lower Tertiary (Verbeek's stages  $\beta$  and  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 39; Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 187.
- „ *subrugosum* Sow. — Quart. Java, Bibl. 30, p. 224; recent.
- „ *talahabense* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 484.
- „ *verbeeki* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 106.
- „ *spec.* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 107.
- „ *spec.* Siemon. — Upp. Tert. Java, Bibl. 70, p. 53.

## FAM. LUNULICARDIIDAE.

- Lunulicardium limaeforme* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 219.

## FAM. CHAMIDAE.

- Chama attenuata* Mart. — Mioc. Java, Bibl. 30, p. 227.  
 „ *dahanaensis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 248.  
 „ *imbricata* Brod. — Quart. Celebes, Bibl. 69, p. 197; recent.  
 „ *niasensis* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 248.  
 „ *ovalis* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. (Tjilang-beds) Java, Bibl. 23, p. 107.  
 „ *simplex* Mart. — Java (age unknown), Bibl. 29, p. 245.  
 „ *umbgrovei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 45.

## FAM. CYPRINIDAE.

- Cypricardia majuscula* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 81.  
 „ *sulcosa* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 38.  
 „ *tenuis* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 37.  
*Cyprina subtransversa* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 82.  
*Isocardia cyrenoïdes* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 81.  
 „ *moltkiana* Lamk. — ? Neog. Java, Bibl. 29, p. 249; recent.  
 „ *subcumingii* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 220.  
 „ *vulgaris* Reeve. — Plioc. Seran, Bibl. 14, p. 121; recent.  
 „ *spec.* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 62.

## FAM. VENERIDAE.

- Circe dijki* Mart. — Upp. Mioc. and Plioc. Java, Bibl. 30, p. 213; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 102 and Bibl. 30, p. 213 and 308; Plioc. Seran, Bibl. 14, p. 128.  
 „ *gibba* Lamk. — Low. Mioc. (Rembang-beds), Plioc. (Sondé-beds) and Quart. Java, Bibl. 30, p. 213; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 102 and Bibl. 30, p. 213 and 308; recent.  
 „ *ickeae* Mart. — Low. Mioc. (Njalindoeng-beds) and Upp. Mioc. (Tjilang-beds) Java, Bibl. 59, p. 486 and Bibl. 63, p. 129.  
 „ *junghuhni* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 271.  
 „ *picta* Lamk. — Quart. Celebes, Bibl. 69, p. 196; recent.  
 „ *scripta* Linn. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 102; Plioc. Seran, Bibl. 14, p. 127; Quart. Java, Bibl. 30, p. 214; recent.  
 „ *undatina* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *undatinoides* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 90.  
*Clementia non-scripta* Sow.<sup>26)</sup>  
 „ *papyracea* Gray.<sup>26)</sup> — Upp. Tert. Celebes, Bibl. 10, p. 994 and Bibl. 55; Low. Mioc. (Rembang- and West-Progo-beds), Upp. Mioc. (Tjilang-beds) and Plioc. Java, Bibl. 53, p. 273; Plioc. Timor, Bibl. 4, p. 669; Plioc. S. W. New-Guinea, Bibl. 70, p. 24; Plioc. (?) Aroe Islands, Bibl. 8, p. 62; recent.



- Cytherea cordiformis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 60.
- „ *erycina* Lamk. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *heberti* Desh. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 31.
- „ *imitatrix* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 90.
- „ *lilacina* Lamk. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 89.
- „ *picta* Lamk. — Quart. Billiton, Bibl. 26, p. 20.
- „ *suessoniensis* Desh. — ? Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 32.
- „ *woodwardi* Boettg. — Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 117.
- Dione philippinarum* Hanley. — Quart. Celebes, Bibl. 69, p. 195; recent.
- Dosinia boettgeri* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 30, p. 218, Bibl. 56, p. 115, Bibl. 61, p. 4 and Bibl. 70, p. 41 and 52.
- „ *caelata* Reeve. — Plioc. Seran, Bibl. 14, p. 124; recent.
- „ *cretacea* Reeve. — Middle and Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 117 and Bibl. 83, p. 221; recent.
- „ *dubiosa* Mart. — Mioc. and Plioc. Java, Bibl. 23, p. 97 and Bibl. 70, p. 50; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 89.
- „ *hemilia* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 63.
- „ *juvenis* Chemn. — Mioc. Java, Bibl. 23, p. 97; recent.
- „ *longilunata* Reeve. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 101; Quart. Java, Bibl. 30, p. 219; recent.
- „ *plana* Reeve. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 98 and Bibl. 56, p. 115; recent.
- „ *polyptyx* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 106.
- „ *steinmanni* Fischer. — Plioc. Seran, Bibl. 14, p. 124.
- „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 107.
- „ *spec. Boettg.* — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 100.
- Meretrix acuticosta* Mart. — Upp. Mioc. Java, Bibl. 30, p. 214.
- „ *arntzenii* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 270 and Bibl. 63, p. 129.
- „ *aurita* Mart. — Mioc. Java, Bibl. 30, p. 215.
- „ *boettgeri* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 189.
- „ *gembacana* Mart. — Mioc. Java, Bibl. 30, p. 217.
- „ *ickeae* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 485.
- „ *intricata* Dautz. — Quart. Celebes, Bibl. 69, p. 195; recent.
- „ *javana* Mart. — ? Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 100.

- Meretrix jogjacartensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 271.
- „ *jonkeri* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 271.
- „ *lirevanida* Fischer. — Plioc. Seran, Bibl. 14, p. 126.
- „ *macra* Mart. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 23, p. 101 and Bibl. 56, p. 114.
- „ *martini* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 103.
- „ *meretrix* Lamk. — Java (age unknown) Bibl. 30, p. 215 (prior); recent.
- „ *molengraaffi* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 103; Plioc. Seran, Bibl. 14, p. 127.
- „ *problematica* Mart. — Low. Mioc. (Rembang-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 250 and Bibl. 56, p. 114.
- „ *progoënsis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 270.
- „ *puruensis* Mart. — Upp. Eoc. (Nangoelan-beds) Java, Bibl. 63<sup>a</sup>, p. 45.
- „ *samarangana* Mart. — Java (age unknown) Bibl. 30, p. 217.
- „ *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 125.
- „ *supralaevis* Fischer. — Plioc. Seran, Bibl. 14, p. 127.
- Meroë ovalis* Mart. — Mioc. Java, Bibl. 23, p. 104.
- „ *scripta* Linn. — Mioc. Java, Bibl. 23, p. 105; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 102; recent.
- „ *sinuosa* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 32.
- „ *subexcavata* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 64.
- Tapes fritschi* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 105.
- „ *galactites* Lamk. — Mioc. Java, Bibl. 23, p. 104; recent.
- „ *hiantina* Lamk. — Quart. Java, Bibl. 30, p. 205; recent.
- „ *lirata* Philippi. — Plioc. Seran, Bibl. 14, p. 128; Plioc. Java, Bibl. 65<sup>2</sup>, p. 200; recent.
- „ *litterata* Linn. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *marmorata* Lamk. — Neog. and Quart. Java, Bibl. 30, p. 205; recent.
- „ *neglecta* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 56, p. 115.
- „ *papilionacea* Lamk. — Plioc. Java, Bibl. 70, p. 41 and 52 and Bibl. 65<sup>2</sup>, p. 199; recent.
- „ *selae* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 102 and Bibl. 56, p. 115.
- „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 486.
- „ *textilis* Gmel. — Plioc. Java, Bibl. 65<sup>2</sup>, p. 206; recent.
- „ *undulata* Born. — Upp. Mioc., Plioc. and Quart. Java, Bibl. 30, p. 204; recent.

- Tapes ventricola* Mart. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 23, p. 100 and Bibl. 56, p. 115.
- „ *virginus* Linn. — Plioc. Timor, Bibl. 4, p. 668; recent.
- „ spec. Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 79.
- „ spec. 1 Mart. — Plioc. Java, Bibl. 61, p. 5.
- „ spec. 2 Mart. — Plioc. Java, Bibl. 61, p. 5.
- „ spec. Siemon. — Upp. Tert. Java, Bibl. 70, p. 54.
- Venerupsis barbataeformis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 67.
- „ *martini* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 104 and Bibl. 80<sup>2</sup>, p. 66.
- „ *praeradiata* Fischer. — Plioc. Seran, Bibl. 14, p. 129.
- „ *samarangana* Mart. — Java (age unknown), Bibl. 30, p. 220.
- Venus astartaeformis* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 88.
- „ *bataviana* Mart. — Upp. Mioc. and Plioc. Pava, Bibl. 30, p. 207 and Bibl. 70, p. 52.
- „ *bifurca* Mart. — Mioc. Java, Bibl. 23, p. 113 and Bibl. 56, p. 115.
- „ *calophylla* Phil. — Quart. Celebes, Bibl. 69, p. 196; recent.
- „ *chlorotica* Phil. — Low. Mioc., Upp. Mioc. (Tjilanang-beds), Plioc. and Quart. Java, Bibl. 30, p. 212 and Bibl. 61, p. 5; Plioc. Timor, Bibl. 30, p. 212 and 308 and Bibl. 35, p. 280; Plioc. Seran, Bibl. 14, p. 125; recent.
- „ *crebrisulca* Sow. — Low. Mioc. (Rembang-beds) and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 98; Quart. Celebes, Bibl. 69, p. 196; recent.
- „ *dijki* Mart. — Upp. Mioc. Java, Bibl. 30, p. 210.
- „ *idiomorpha* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 65.
- „ *kroënsis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 91.
- „ *listeri* Gray. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 272; Plioc. Timor, Bibl. 30, p. 210 and 308; Plioc. S. W. New-Guinea, Bibl. 70, p. 23; Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *marica* Linn. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *martini* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 61.
- „ *non-scripta* Sow. <sup>26)</sup>
- „ *obtusangularis* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 80.
- „ *pectiniformis* Mart — Java (age unknown), Bibl. 30, p. 211.
- „ *pulcherrima* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 250 and Bibl. 56, p. 115.
- „ *scabra* Hanley. — Upp. Mioc., Plioc. and Quart. Java, Bibl. 30, p. 208; recent.
- „ *sowerbyi* Desh. — Plioc. (?) Aroe Islands, Bibl. 8, p. 61; recent.
- „ *squamosa* Lamk. — Upp. Mioc. and Plioc. Java, Bibl. 30, p. 207; Plioc. Timor, Bibl. 30, p. 207 and 308 and Bibl. 35, p. 280.
- „ *sulcifera* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 33; Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 2, p. 143.

- Venus sumatrana* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 88.  
 „ *toreuma* Gould. — Quart. Celebes, Bibl. 69, p. 196; recent.  
 „ *trigonalis* Mart. — Upp. Mioc. Java, Bibl. 29, p. 251; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 104.

## FAM. CYRENIDAE.

- Corbicula exporrecta* Mart. — Mioc. Java, Bibl. 30, p. 222.  
 „ *fluminea* Müll. — Plioc. Java, Bibl. 30, p. 221; recent.  
 „ *pengaronensis* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 34.  
 „ *spec.* Mart. — Quart. Java, Bibl. 48, p. 53.  
*Cyrena borneensis* (Verbeek) Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 36; Eoc. Centr. Borneo, Bibl. 17, p. 199; Eoc. Celebes, Bibl. 10, p. 971.  
 „ *callista* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 62.  
 „ *latonaeformis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 92.  
 „ *rustica* Mart. — Mioc., Plioc. (Sondé-beds) and Quart. (?) Java, Bibl. 30, p. 222; Quart. Madoera, Bibl. 56, p. 116.  
 „ *sinuosa* Desh. — Middle Mioc. Nias, Bibl. 83, p. 223.  
 „ *subrotundata* Krause. — Eoc. Centr. Borneo, Bibl. 17, p. 203 and 210 and Bibl. 38, p. 296.  
 „ *subtrigonalis* Krause. — Eoc. Centr. Borneo, Bibl. 17, p. 193 and Bibl. 38, p. 294.  
 „ *spec.* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 35.  
*Sphaerium angulosa* Mart. — Plioc. (?) Java, Bibl. 30, p. 223.

## FAM. UNGULINIDAE.

- Diplodonta everwijni* Mart. — Low. Mioc., Upp. Mioc. (Tjilanang-beds), Plioc. and Quart. Java, Bibl. 29, p. 252, Bibl. 56, p. 116 and Bibl. 61, p. 4.

- Ungulina rostrata* Mart. — Neog. Java, Bibl. 30, p. 224.

## FAM. PSAMMOBIIDAE.

- Psammobia convexa* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 59.  
 „ *preangerensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 486.  
 „ *spec.* Siemon. — Plioc. Java, Bibl. 70, p. 41.  
*Solenotellina spec.* Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 88.

## FAM. SOLEDINAE.

- Cultellus dilatatus* Mart. — Low. Mioc. and Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 90.  
 „ *javanicus* Lamk. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 129; recent.  
 „ *maximus* Chemn. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 128; recent.

- Cultellis olivaceus* Metc. — ? Plioc. Java, Bibl. 65<sup>3</sup>, p. 206; recent.  
 „ *tjiguhanensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java. Bibl. 59, p. 487.
- Psammosolen truncatus* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 25.
- Siliqua acutalis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 59.  
 „ *annulifera* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 26.  
 „ *cheribonensis* Van der Meer Mohr. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 127.  
 „ *elongatula* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 101.  
 „ *winteriana* Dkr. — Plioc. and Quart. Java, Bibl. 30, p. 199; recent.  
 „ spec. Mart. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 87.
- Solen brevis* Hanl. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *corneus* Lamk. — ? Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 58.  
 „ spec. Van der Meer Mohr. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 129.
- Solenocurtus coarctatus* Gmel. — Plioc. Seran, Bibl. 14, p. 131.  
 „ *pectiniferus* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 273.  
 „ *zwierzykii* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63<sup>a</sup>, p. 45.  
 „ *candidus* Quoy et Gaim. — Upp. Mioc. W. Sumatra, Bibl. 24, p. 87; Quart. Billiton, Bibl. 26, p. 20; recent.

## FAM. SCROBICULARIIDAE.

- Scrobicularia angulata* Chemn. prior *aequistriata* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 60 and Bibl. 84, p. 106.

## FAM. MESODESMATIDAE.

- Ceronia antiqua* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 59.

## FAM. MACTRIDAE.

- Mactra plana* Mart. — Mioc. Java, Bibl. 23, p. 95; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 57.  
*Mactrinula semiplicata* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 103 and Bibl. 80<sup>2</sup>, p. 100.  
 „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 88.

## FAM. PANOPAEIDAE.

*Panopaea filifera* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 26.

## FAM. ANATINIDAE.

*Anatina annulifera* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 28.

## FAM. MYIDAE.

- Corbula acuticosta* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 30, p. 197.
- „ *balongensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 46.
- „ *cuneata* Hinds. — ? Upp. Mioc. W. Sumatra, Bibl. 24, p. 86; Java (age unknown), Bibl. 30, p. 199.
- „ *dajacensis* Krause. — Eoc. Centr. Borneo, Bibl. 17, p. 205 and 212 and Bibl. 38, p. 301.
- „ *gregaria* Mart. — Mioc. (?) Java, Bibl. 23, p. 94.
- „ *ickei* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 46.
- „ *infantula* Fischer. — Plioc. Seran, Bibl. 14, p. 132.
- „ *javana* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 46.
- „ *lamareki* Desh. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 27.
- „ *lamellata* Fischer. — Plioc. Seran, Bibl. 14, p. 131.
- „ *njalindungensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 488.
- „ *ovum* Mart. — Mioc. (?) Java, Bibl. 23, p. 94.
- „ *problematica* Mart. — Neog. Java, Bibl. 23, p. 91 and Bibl. 56, p. 117.
- „ *scaphoides* Hinds. — Upp. Mioc. W. Sumatra, Bibl. 72, p. 161; Plioc. Java, Bibl. 30, p. 196; Plioc. and Quart. Timor, Bibl. 74<sup>2</sup>, p. 106; Bibl. 30, p. 196 and 308 and Bibl. 35, p. 280; recent.
- „ *semitorta* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 189.
- „ *sinuosa* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 93.
- „ *socialis* Mart. — Low. Mioc. (Rembang-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 30, p. 197 and Bibl. 70, p. 54; Upp. Mioc. W. Sumatra, Bibl. 72, p. 161; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 106; Plioc. S. W. New-Guinea, Bibl. 70, p. 24; Plioc. Seran, Bibl. 14, p. 132.
- „ *tjiguhanensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 487.
- „ *trigonalis* Sow. — Mioc. (?) Java, Bibl. 23, p. 93.
- „ *tunicata* Hinds. — Low. Mioc. (?), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 29, p. 253 and Bibl. 56, p. 116.

- Corbula watumurensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 191.  
 „ *sp. sp.* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 28; Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 56.  
 „ *spec.* Krause. — Eoc. Centr. Borneo, Bibl. 17, p. 217.  
*Cryptomya spec.* Siemon. — Plioc. Java, Bibl. 70, p. 42.  
*Mya virgo* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 91.

## FAM. GASTROCHAENIDAE.

- Fistulana clava* Lamk. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 129 and Bibl. 65<sup>2</sup>, p. 200; recent.  
*Gastrochaena fragilissima* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 192.

## FAM. CLAVAGELLIDAE.

- Aspergillum annulosum* Desh. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *javanum* Lamk. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 130 and Bibl. 65<sup>2</sup>, p. 200; recent.  
 „ *spec.* H. Woodw. — Middle Mioc. Nias, Bibl. 83, p. 225.

## FAM. TEREDINIDAE.

- Teredina annulata* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 24; ? Mioc. Java, Bibl. 70, p. 44; Low. Mioc. S. Sumatra, Bibl. 80<sup>1</sup>, p. 94.  
*Teredo arenaria* Lamk. — Low. Mioc. (West-Progo-beds), Upp. Mioc. (Tjilanang-beds) and Plioc. (Sondé-beds) Java, Bibl. 30, p. 194; Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ *batavus* Spengl. — Mioc. Java, Bibl. 23, p. 90; recent.  
 „ *striolatus* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 23.

## FAM. PHOLADIDAE.

- Martesia striata* Linn. prior laevior Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 56.  
*Pholas latissima* Sow. — Plioc. Java, Bibl. 65<sup>2</sup>, j. 207; recent.  
 „ *orientalis* Gmel. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 130; recent.  
 „ *hercules* Mart. — Plioc. Java, Bibl. 61, p. 8.

## FAM. PANOPAEIDAE.

- Saxicava aegypto-indica* Tesch. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 107.

## Order DIBRANCHIA.

## FAM. LUCINIDAE.

- Corbis krooni* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 996 and Bibl. 55.  
 „ *minor* Boettg. — Lower Tertiary (Verbeek's stage  $\gamma$ ) S. E. Borneo, Bibl. 1, p. 42.  
 „ *spec.* Siemon. — Upp. Tert. Java, Bibl. 70, p. 53.

- Lucina angulata* Mart. — Mioc. Java, Bibl. 30, p. 226 and Bibl. 56, p. 117.  
 „ *borneënsis* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 42.  
 „ *corbulaeformis* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 43.  
 „ *djunggranganensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 274.  
 „ *dijki* Mart. — Mioc. Java, Bibl. 30, p. 225.  
 „ *indistincta* Mart. — Low. Mioc., Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 23, p. 103 and Bibl. 56, p. 117.  
 „ *kemedjingensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 274 and Bibl. 63, p. 129.  
 „ *limopsis* Boettg. — Upp. Mioc. (Lower-Palembang-beds) S. Sumatra, Bibl. 80<sup>2</sup>, p. 93.  
 „ *maxima* Mart. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 29, p. 248 and Bibl. 56, p. 117.  
 „ *merangiana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 489.  
 „ *pollii* Martin-Icke. — Upp. Mioc. Nias, Bibl. 15, p. 250.  
 „ *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 122.  
 „ *simplex* Mart. — Neog. Java, Bibl. 23, p. 108 and Bibl. 56, p. 117.  
 „ *tenuicrusta* Mart. — Mioc. Java, Bibl. 30, p. 225; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 100.  
 „ *tjibodasiana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 489.  
 „ *tumida* Reeve. — Java (age unknown), Bibl. 23, p. 108; recent.  
 „ *verbeeki* Boettg. — Low. Mioc. W. Sumatra, Bibl. 80<sup>1</sup>, p. 84.  
 „ sp. sp. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 109 and Bibl. 80<sup>2</sup>, p. 68.  
 „ sp. sp. Martin-Icke. — Low. (?) and Upp. Mioc. Nias, Bibl. 15, p. 249 and 250.  
 „ sp. sp. Siemon. — Plioc. Java, Bibl. 70, p. 45.  
 „ spec. H. Woodw. — Low. Mioc. Centr. Sumatra, Bibl. 83, p. 212.

## FAM. TELLINIDAE.

- Gastrana songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 194.  
*Tellina biornata* Boettg. — Lower Tertiary (Verbeek's stage  $\alpha$ ) S. E. Borneo, Bibl. 1, p. 30.  
 „ *bruguierei* Hanl. — Quart. Celebes, Bibl. 69, p. 195; recent.  
 „ *cygnus* Hanl. — Plioc. (?) Java, Bibl. 30, p. 203; recent.  
 „ *dijki* Mart. — Quart. Java, Bibl. 30, p. 202.  
 „ *donacialis* Lamk. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 30.  
 „ *euxesta* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 61.  
 „ *hippipoidea* Lamk. — Upp. Mioc. (Tjilanang-beds) and Plioc. Java, Bibl. 23, p. 96; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 105; recent.



- Tellina ickeae* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 490.
- „ *iridescens* Benson. — Quart. Java, Bibl. 30, p. 200; recent.
- „ *junghuhni* Mart. — Java (age unknown), Bibl. 23, p. 96 and Bibl. 56, p. 118.
- „ *lingua felis* Linn. — Quart. Billiton, Bibl. 26, p. 20; recent.
- „ *merangiana* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 490.
- „ *molengraaffi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 193.
- „ *nanggulanensis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 193.
- „ *nannodes* Mart. — Plioc. (?) Java, Bibl. 30, p. 201.
- „ *niasensis* Boettg. — Upp. Mioc. S. Sumatra, Bibl. 84, p. 106; Upp. Mioc. Nias, Bibl. 80<sup>2</sup>, p. 116.
- „ *njalindungensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 491.
- „ *ovatula* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 57.
- „ *permodesta* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 275.
- „ *planitesta* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 56.
- „ *plicata* Valenc. — Upp. Mioc. (Tjilanang-beds) Java, Bibl. 23, p. 95; recent.
- „ *pulcherrima* Sow. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 105.
- „ *retifera* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 275.
- „ *rhomboides* Quoy et Gaimard. — Plioc. Seran, Bibl. 14, p. 129; recent.
- „ *rostrata* Linn. — Plioc. Java, Bibl. 65<sup>1</sup>, p. 126.
- „ *rotunda* Mart. — Mioc. Java, Bibl. 30, p. 203.
- „ *rotundata* Boettg. — Lower Tertiary (Verbeek's stage  $\beta$ ) S. E. Borneo, Bibl. 1, p. 29.
- „ *scobinata* Linn. — Quart. Celebes, Bibl. 69, p. 195; recent.
- „ *serana* Fischer. — Plioc. Seran, Bibl. 14, p. 130.
- „ *sokkohensis* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 274.
- „ *songoënsis* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 47.
- „ *sumatrana* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 88 and 100.
- „ *talahabensis* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 490.
- „ *tazuvensis* Cotter. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 63a, p. 48.
- „ *timorensis* Lamk. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 105; Quart. Java, Bibl. 30, p. 200; recent.
- „ *venusta* Mart. — Mioc. Java, Bibl. 23, p. 102 and Bibl. 56, p. 118.

- Tellina verbeeki* Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 102.  
 „ *virgata* Linn. — Quart. Billiton, Bibl. 26, p. 20; recent.  
 „ sp. sp. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>1</sup>, p. 57 and 58.  
 „ spec. Siemon. — Plioc. Java, Bibl. 70, p. 41.

## FAM. CUSPIDARIIDAE.

- Cuspidaria inflata* Mart. — Upp. Mioc. Java, Bibl. 30, p. 195.

## Class SCAPHOPODA.

## FAM. DENTALIIDAE.

- Dentalium angsananum* Mart. — Low. Mioc. (Njalindoeng-beds) Java, Bibl. 59, p. 479 and Bibl. 63, p. 128.  
 „ *dijki* Mart. — Low. Mioc. Java, Bibl. 30, p. 186; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 83 and Bibl. 30, p. 186 and 308.  
 „ *dispar* Sow. — Plioc. Seran, Bibl. 14, p. 111; recent.  
 „ *eburneum* Linn. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 85.  
 „ *enneagonum* Mart. — Plioc. (?) Java, Bibl. 30, p. 187.  
 „ *erectum* Sow. — Low. Mioc. (?) Java, Bibl. 30, p. 192; Plioc. N. Sumatra, Bibl. 62, p. 5.  
 „ *gonatodes* Mart. — Plioc. and Quart. Java, Bibl. 30, p. 192 and Bibl. 56, p. 118; Plioc. N. Sumatra, Bibl. 62, p. 5; Plioc. Seran, Bibl. 14, p. 112.  
 „ *granosum* Mart. — Mioc. Java, Bibl. 30, p. 193.  
 „ *heptagonum* Boettg. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 30, p. 188; Upp. Mioc. or Plioc. Timor, Bibl. 74<sup>2</sup>, p. 83.  
 „ *jonkeri* Mart. — Low. Mioc., Upp. Mioc. and Plioc. Java, Bibl. 30, p. 188; Plioc. N. Sumatra, Bibl. 62, p. 5; Plioc. Timor, Bibl. 30, p. 186 and 308.  
 „ *junghuhi* Mart. — Low. Mioc. and Upp. Mioc. Java, Bibl. 30, p. 185 and Bibl. 70, p. 52; Upp. Mioc. (?) and Plioc. Timor, Bibl. 74<sup>2</sup>, p. 81; Plioc. S. W. New-Guinea, Bibl. 70, p. 35.  
 „ *longitrorsum* Reeve. — Plioc. Java, Bibl. 65<sup>3</sup>, p. 205; recent.  
 „ *martini* Dollfus. — Upp. Tert. Celebes, Bibl. 10, p. 993 and Bibl. 55.  
 „ *molengraaffi* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 179.  
 „ *nanggulanense* Mart. — Upp. Eoc. (Nanggoelan-beds) Java, Bibl. 52, p. 179.  
 „ *profundorum* Smith. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 82.  
 „ *rutteni* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 262.  
 „ *serratum* Mart. — Low. Mioc. Java, Bibl. 30, p. 189.  
 „ *sokkohense* Mart. — Low. Mioc. (West-Progo-beds) Java, Bibl. 53, p. 262.  
 „ *spiniforme* Mart. — Low. Mioc. Java, Bibl. 30, p. 191.

- Dentalium subrectum Mart. — Low. Mioc. Java, Bibl. 30, p. 185; Plioc. Timor, Bibl. 74<sup>2</sup>, p. 84.
- „ tenuistriatum Mart. — Upp. Mioc. Java, Bibl. 23, p. 88.
- „ trigonale Mart. — Mioc. Java, Bibl. 30, p. 191 and Bibl. 56, p. 118.
- „ spec. 1 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.
- „ spec. 4 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.
- „ spec. 5 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.
- „ spec. 7 Mart. — Plioc. N. Sumatra, Bibl. 62, p. 5 and 14.
- „ spec. Boettg. — Upp. Mioc. (Lower-Palembang-beds) W. Sumatra, Bibl. 80<sup>2</sup>, p. 53.
- „ spec. H. Woodw. — Mioc. Nias, Bibl. 83, p. 252 and Bibl. 80<sup>2</sup>, p. 114.

## FAM. SIPHONODENTALIIDAE.

- Entalina compressa Mart. — Low. Mioc. Java, Bibl. 30, p. 189.
- „ mediocarinata Boissevain. — Plioc. Timor, Bibl. 74<sup>2</sup>, p. 85; recent.
- „ quadrata Mart. — Low. Mioc. Java, Bibl. 30, p. 190 and Bibl. 56, p. 118.

## ANNOTATIONS TO THE LIST OF SPECIES.

1. Dr. W. LEUPOLD visited the same locality where STAUB collected the mollusca. He found there also *Lepidocyclina (Tryblioilepidina) ruttenei* and concluded therefore to an age Tertiary-f 3 (Gelingsch-beds) and not „Pliocene” as supposed by STAUB (oral information).
2. The shells described by DOLLFUS under this name from Celebes (Bibl. 10) are, after MARTIN (Bibl. 55), too badly preserved to allow an exact determination.
3. The species described by MARTIN under the name of *Drillia nodosa* has to be erased by reason of priority. Therefore COSSMANN called it *Drillia martini*.
4. Both SCHEPMAN (Bibl. 69, p. 169) and Miss ICKE (Bibl. 15, p. 232) used the name *Turricula martini*. By reason of priority I propose to name the species, described by Miss ICKE: *Turricula dahanensis*.
5. *Clavilithes sangiranensis* MART. = *Cominella sangiranensis* MART. Vide Bibl. 63, p. 123.
6. The specimens, described by MARTIN from Timor (Bibl. 30, p. 119, tab. 6, fig. 120) and Java (Bibl. 30, p. 120, tabl. 6, fig. 122) belong, after H. MARTIN-ICKE (Bibl. 15, p. 234), not to *Nassa siquijorensis* but to *Nassa canaliculata*.
7. After MARTIN (Bibl. 59, p. 103) is the fossil, described by BOETTGER as *Hindsia affinis* a prior of *Hindsia nivea* GMEL.

8. *Cypraea burialensis* was originally described by MARTIN as *Cypraea ovata*; this name has to be erased by reason of priority.
9. Vide Bibl. 56, p. 119, note no. 74.
10. The fossils described by MARTIN from Nias as *Strombus urceus* (Bibl. 59, p. 189) belong, after Miss ICKE (Bibl. 15, p. 240), to *Strombus muricatus*.
11. *Potamides beberkirianum* = *Cerithium beberkirianum*.
12. In Bibl. 63a, p. 39 MARTIN describes *Cerithium boettgeri* (from the Nanggoelan-beds, Java). By reason of priority Prof. MARTIN has the intention to change this name in *Cerithium vanderwerkeri* (oral information).
13. *Cerithium montis selae* MARTIN = *Telescopium telescopium* LINN. Vide: Bibl. 30, p. 145.
14. It is not impossible, that this fossil belongs to *Cerithium* (Bibl. 74<sup>1</sup>, p. 38).
15. FISCHER described *Pyrula ficoides* LAMK. under the name *Ficula reticulata* LAMK. (Bibl. 14, p. 62).
16. *Turritella cingulifera* Sow. is originally described by MARTIN (Bibl. 30, p. 172) under the name *Turritella vulgaris nov. spec.*
17. *Turritella jenkinsi* (JENK.) COSSMANN = *Turritella simplex* JENKINS. The latter has to be erased by reason of priority.
18. Vide Bibl. 56, p. 119, note no. 79.
19. *Natica chinensiformis* MART. = *Natica marochensis* GMEI. Vide: Bibl. 59, p. 258.
20. The specimens described by MARTIN from Timor under the name *Natica vitellus* (Bibl. 30, p. 164 and 380) are identical with *Natica rufa*. Vide: Bibl. 59, p. 260.
21. *Turbo borneënsis* BOETTG. = *Turbo obliquus* JENK. Vide: Bibl. 80<sup>1</sup>, p. 71.
22. *Delphinula laciniata* LAMK. is originally described by MARTIN (Bibl. 23) under the name *Delphinula fossilis nov. spec.*
23. *Lithodomus affinis* MART. is described by BOETTGER under the name *Lithodomus verbeeki* (Bibl. 80<sup>1</sup>, p. 86) and *Lithophagus affinis* (Bibl. 80<sup>2</sup>, p. 28).
24. The fossils described by TESCH from Timor under the name *Arca foliata* belong, after OOSTINGH (Bibl. 66, p. 108), to *Arca decussata* Sow.
25. After OOSTINGH (Bibl. 66, p. 109) as well *Arca fennemai* as *Arca junghuhni* and *Arca scapha* belong to *Arca antiquata* LINN. Vide also: Bibl. 56, p. 113, note no. 29.
26. *Clementia papyracea* GRAY is described by COX (Bibl. 8, p. 62) under the name *Clementia non-scripta* Sow. and by DOLLFUS (Bibl. 10, p. 994) under the name *Venus non-scripta* Sow.

27. Described by MARTIN under the name *Strombus isabella* LAMK. var. *thersites* MART.
28. After TESCH (Bibl. 74<sup>2</sup>, p. 51) the fossils described by MARTIN under the name *Rostellaria spinifera* nov. spec. belong to *Rimella cancellata* LAMK.

### STRATIGRAPHICAL REMARKS.

When we consider the importance of the mollusca for the stratigraphy of the Indopacific region, we are considering the life work of MARTIN. For all that painstaking work that he began in 1878 and now in 1931 is still continuing with the same energy and zeal has but one aim: the determination of the age of the sediments in the East Indies.

Great difficulties had to be surmounted by MARTIN in attaining this aim. In the first place it was one of his great merits soon to discover that we are here dealing with an autochthonous fauna. A direct comparison with the European Tertiary was therefore rendered impossible, and at the same time excluded to ascertain the age of the East Indian strata along this line. Those who differed from MARTIN in this respect, BOETGER amongst others in the first place, were soon forced to change their opinion by the clear arguments of MARTIN. MARTIN was further handicapped in not being able to dispose over the stratigraphical details, that he should in the normal course of events have received from the field geologists. Finally it should be taken into account that the material was frequently badly conserved. The last fact, especially, induced MARTIN to travel to the East Indies and collect there himself. Amongst others the beautiful Eocene fossils from Nanggoelan were discovered by him where the field geologists had as yet only collected very poor material. It has already been said several times, but it cannot be overemphasized, that MARTIN showed us the only possible way out of these difficulties by the comparison of the fossils with the recent fauna of these parts. Thankfully we can now assert, that the basis of the East Indian stratigraphy that he thus laid, has proved solid and firm.

As result of these comparative studies MARTIN succeeded in arranging a number of guide-beds, that beginning with the oldest are: Nanggoelan-beds, W.-Progo-beds, Rembang-beds, Njalindoeng-beds, Tjilalang-beds, Tji-Odeng-beds, Sondé-beds with respectively 0 %, 8 %, 16.9 %, 18 %, 32 %, 42 %, 53 % of species still known recently.

This method of investigation has one great advantage, that I wish to emphasize specially here, namely that MARTIN has not made the mistake of wishing to establish guide fossils, a mistake often made by later investigators, especially micro-palaeontologists. On the contrary he has always attempted to consider fossils from a bed as units of an association. In consequence the stratigraphical series that he established proved to be correct and he has spared us the confusing „conclusions” that have to be retracted every now and then.

As I mentioned above, MARTIN has attempted to fit his system into the European-stratigraphy. He clearly saw, that one may not compare the percentages for the East Indies with those for Europe. He drew our attention to the fact that the circumstances since the Lower Tertiary were different in the two regions and consequently a slower evolution in the East Indies took place. From this it follows that for beds of the same age the percentage must be lower in Europe. The question is: how much lower? This question is difficult to answer and forms the weak point in the attempt to compare the two Tertiary regions.

MARTIN used the following numbers: Eocene 0 %; Lower Miocene  $\pm$  8—20 %; Upper Miocene  $\pm$  20—50 %; Pliocene  $\pm$  50—70 % and Quarternary more than 70 %.

That MARTIN was not far wrong, has been established in the last years. The detailed investigations of VREDENBURG in British India have opened the possibility of a comparison between the East Indies and Europe, via this country (Vide: MARTIN, L. G. M., Dl. IV, Afl. 1, p. 1—8). It was shown, that the Gaj-series of India contains 13 species, that occur also in the Lower Miocene of Europe and 32, that occur also in the Javanese beds, that MARTIN had termed Lower Miocene. The older Nari-series contains 40 species from the European Oligocene, but practically no Javanese species. The Gaj-series is covered by the Mekran-series, that on the contrary contains no European species, but 39 Javanese species. Obviously the correlation of Europe with the East Indies is not possible for the beds younger than Lower Miocene.

We already pointed out, that the hint for guide fossils dit not enter the domain of the mollusca, thanks to the insight of MARTIN. But the time appears ripe to point out a few species, that up till now, have only been found within certain stratigraphical limits.

Thus most of the species, described by MARTIN from the Nangoelan-beds will doubtless prove to be guide fossils for the Upper-Eocene.

For the Miocene the following species can as yet be looked upon as characteristic: *Terebra bandongensis* MART., *T. javana* MART., *T. jenkinsi* MART., *Olivancillaria gibbosa prior jenkinsi* MART., *Turricula javana* MART., *Melongena perponderosa* MART., *Purpura umbilicata* MART., *Cypraea caput-viperæ* MART., *Rostellaria verbeeki* MART., *Strombus triangulatus* MART., *Vicarya callosa* JENK., *Turritella acuticarinata* DKR., *T. javana* MART., *T. simplex* MART.

Probably the following species are guide fossils for the Pliocene: *Surcula bantamensis* MART., *Pleurotoma gendinganensis* MART., *Turricula bataviana* MART., *T. jonkeri* MART., *Semifusus timorensis* MART., *Fusus menengtenganus* MART., *Nassa madiunensis* MART., *Hindsia gendinganensis* MART., *Rimella spinifera* MART., *Strombus fennemai* MART., *S. madiunensis* MART.

## BIBLIOGRAPHY.

1. BOETTGER, O. Die fossilen Mollusken der Eocänenformation auf der Insel Borneo. Paläontographica, Suppl. III, Lief. 1, 1875, p. 9—59, mit 10 Tafeln (= Jaarb. Mijnw. 1877 II, p. 11—110).
2. BOETTGER, O. Die Mollusken der oligocänen Schichten vom Bawang-Flusse, Res. Djokdjakarta, Insel Java. Paläontographica, Suppl. III, Lief. 9, 10, Cassel 1883, p. 125—148, mit 2 Tafeln (= Jaarb. Mijnw. 1883, Wet. Ged., p. 225—266. Met 2 platen).
3. BOETTGER, O. Vide Verbeek-Boettger-Von Fritsch.
4. BOETTGER, O. Liste der tertiären und jüngeren Versteinerungen aus den Molukken. In: „Verbeek's Molukkenverslag“, Jaarb. Mijnw. 1908, Wet. Ged., p. 668—675.
5. BÖHM, A. Ueber einige tertiäre Fossilien von der Insel Madura. Denkschr. math. naturw. Classe k. k. Akad. d. Wiss. in Wien, XLV, 1882, p. 359—372, 4 Taf. und 2 Holzsehn.
6. Correlations of postcretaceous formations in the Pacific Region. Proc. First Pan-Pacific Scient. Conference, Honolulu, 1921, Pt. III, p. 713—873, Proc. no. 4296.
7. COSSMANN. Essais de Paléoconchologie comparée, livr. I—XII. Paris, 1895—1921.
8. COX, L. R. Some late kainozoic pelecypoda from the Aru islands. Geol. Mag., 1924, p. 56—63, with 4 textfig.
9. DESHAYES et HARDIE. Description of some fossils from Java. Bull. Soc. géol. de France, IV (séance du 3 février) 1834, p. 217—221.
10. DOLLFUS, G. F. Paléontologie du voyage à l'île Célèbes de M. E. C. Abendanon. In: E. C. Abendanon, Geolog. en Geograph. doorkruisingen van Midd. Celebes, Dl. III, p. 959—1016, avec 4 planches.
11. DOLLFUS, G. F. L'oligocène de l'île Célèbes. Bull. Soc. géol. de France, 19, 1919, p. 13—15.
- 11a. DUBOIS, E. Eenige van Nederlandschen kant verkregen uitkomsten met betrekking tot de kennis der Kendeng-Fauna (Fauna van Trinil). Tijdschr. Kon. Nederl. Aardr. Genootsch., 2e ser., Dl. XXIV, p. 449.
- 11b. DUBOIS, E. Das geologische Alter der Kendeng- oder Trinil-Fauna. Tijdschr. Kon. Ned. Aardr. Genootsch., 2e ser., Dl. XXV, p. 1235.
12. DUNKER, W. Description of a fossil from Lebak, res. Bantam, Java (Turritella acuticarinata). Palaeontographica, Bd. I, 1851, Lief. 3, p. 132, Taf. XVIII, fig. 10.
13. FISCHER, P. J. Eine Pliocänfauna von Seran (Molukken). Centralblatt f. Min., 1921, p. 242—251 und 278—286.
14. FISCHER, P. J. Beitrag zur Kenntnis der Pliozän-Fauna der Molukken-inseln Seran und Obi. Paläontologie von Timor, Lief. XV, Abh. 25, 1927, p. 1—179, mit 6 Tafeln.
15. ICKE, H. en MARTIN, K. Over tertiaire en kwartaire vormingen van het eiland Nias, met 5 pl. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. VIII, 1907, p. 204—252.
16. JENKINS, H. M. On some tertiary mollusca from Mount Sela in the Island of Java. Quart. Journ. of the geol. Soc., vol. XX, 1864, p. 45—73, with 2 plates.
17. KRAUSE, P. G. Ueber tertiäre, cretaceische und ältere Ablagerungen aus West-Borneo. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. V, 1889, p. 169—220, mit 2 Tafeln (= Jaarb. Mijnw. 1899, Wet. 2e ged., p. 1—52).

18. KRAUSE, P. G. A correction to: „Ueber tertiäre, cretaceische und ältere Ablagerungen aus W. Borneo“. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. V, 1889, p. 316.
19. MARTIN—ICKE, H. Die fossilen Gastropoden von Trinil. In: Selenka und Blanckenhorn, Die Pithecanthropus-Schichten auf Java, Geol. u. Pal. Ergebnisse der Trinil-Expedition, Leipzig 1911, p. 46—51.
20. MARTIN, K. Kort bericht over den ouderdom der tertiaire versteeningen van Java, door Junghuhn verzameld. Zeitschr. d. d. geol. Ges., XXX, 1878, p. 539.
21. MARTIN, K. Kort bericht over de tertiaire versteeningen van Java. Neues Jahrb. f. Min., 1879, p. 557.
22. MARTIN, K. Kort bericht over den waarschijnlijksten ouderdom van sommige tertiaire lagen van Java. Neues Jahrb. f. Min., 1879, p. 850.
23. MARTIN, K. Die Tertiärschichten auf Java, nach den Entdeckungen von F. Junghuhn, 28 Tafeln, Leiden, 1879—1880.
24. MARTIN, K. Jungtertiäre Ablagerungen im Padangischen Hochlande auf Sumatra, mit 2 Tafeln. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. I, 1881, p. 84—104 (= Jaarb. Mijnw. 1882, Wet. Ged., p. 157—179).
25. MARTIN, K. Tertiaer-Versteinerungen von östlichen Java. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. I, 1881, p. 105—130, mit 4 Tafeln (= Jaarb. Mijnw. 1882, Wet. Ged., p. 253—280).
26. MARTIN, K. On a posttertiary fauna from the stream tin-deposits of Blitong (Billiton). Notes from the Leyden-Museum, Vol. III, Note VII, 1880, p. 17—22.
27. MARTIN, K. Neue Fundpunkte von Tertiär-Gesteinen im Indischen Archipel (Madura). Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. I, 1882, p. 147—152 (= Jaarb. Mijnw. 1882, Wet. Ged., p. 298—303).
28. MARTIN, K. Neue Fundpunkte von Tertiär-Gesteinen im Indischen Archipel (Batu-Inseln). Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. I, 1882, p. 152—154 und 173—179 (= Jaarb. Mijnw. 1882, Wet. Ged., p. 303—305 en 324—331).
29. MARTIN, K. Nachträge zu den „Tertiärschichten auf Java“, Iter Nachtrag: Mollusken. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. I, 1883, p. 194—270. Mit 5 Tafeln (= Jaarb. Mijnw. 1883, Wet. Ged., p. 285—358).
30. MARTIN, K. Paläontologische Ergebnisse von Tiefbohrungen auf Java, nebst allgemeineren Studien über das Tertiaer von Java, Timor und einiger anderer Inseln. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. III, 1883—1887, p. 1—380, mit 15 Tafeln (= Jaarb. Mijnw. 1883, Wet. Ged., p. 371—412, 1884, Wet. Ged., p. 77—216, 1885, Wet. Ged., p. 5—108, 1887, Wet. Ged., p. 253—342).
31. MARTIN, K. Die wichtigsten Daten unserer geol. Kenntniss vom niederl. ost-ind. Archipel. Bijdr. Taal-, Land- en Volk. k. v. N. I., Uitgeg. d. Kon. Inst. v. d. T., L. en V. van N. I., ter gelegenheid v. h. 6e intern. congres der Orientalisten te Leiden, dl. Land- en Volkenkunde, A'dam, 1883, p. 17—32.
32. MARTIN, K. Wissenschaftliche Aufgaben, welche der geolog. Erforschung des Indischen Archipels gestellt sind. Leiden, 1883.
33. MARTIN, K. Korte opmerkingen over versteeningen van Menado en Totok. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. III, 1887, p. 362—363 (= Jaarb. Mijnw. 1887, Wet. 2e ged., p. 312—313).
34. MARTIN, K. Ein neues Telescopium und die Beziehung dieser Gattung zu Nerinea. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. IV, 1890, p. 232—237 (= Jaarb. Mijnw. 1889, Wet. 2e ged., p. 109—114).
35. MARTIN, K. Ein Beitrag zur Geologie von Timor und Celebes. Tijdschr. Kon. Ned. Aardr. Gen., 2e serie, VII, 1890, p. 275—278.
36. MARTIN, K. Neues über das Tertiär von Java. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. V, 1895, p. 23—51 (= Jaarb. Mijnw., Wet. Ged., Vervolg, p. 85—114).
37. MARTIN, K. Uit het jongste verleden der Nederlandsche Koloniën. Leiden, 1896.



38. MARTIN, K. Die Fauna der Melawi-Gruppe, aus dem Innern von (West)-Borneo. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. V, 1899, p. 257—316, mit 2 Tafeln (= Jaarb. Mijaw. 1898, Wet. 2e ged., p. 37—96).
39. MARTIN, K. Ueber die Eintheilung der Tertiärschichten auf der Insel Java. Zeitschr. d. d. geol. Ges., 1900, Verh. p. 2—10.
40. MARTIN, K. Die Eintheilung der versteinierungsführenden Sedimente von Java. Samml. Reichsmus. Leiden, Ser. I, Bd. VI, 1900, p. 135—245.
41. MARTIN, K. Tertiaire en jongere versteeningen van Nias. Handelingen XIE Nat. en Geneesk. Congres, April 1907, p. 639—640.
42. MARTIN, K. Eine altmiocäne Gastropodenfauna von Rembang. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. VIII, 1907, p. 145—152.
43. MARTIN, K. Systematische Uebersicht über die Gastropoden aus tertiären und jüngeren Ablagerungen von Java. Neues Jahrb. f. Min., 1907, II, p. 151—162.
44. MARTIN, K. Das Alter der Schichten von Sondé und Trinil auf Java. Versl. Vergad. Kon. Akad. v. Wet., Afd. Nat., 30 Mei 1908, p. 7—16.
45. MARTIN, K. Junghuhn's Ansichten über die versteinierungsführenden Sedimente von Java. Junghuhn-Gedenkboek, 's-Gravenhage, 1910, p. 95—104.
46. MARTIN, K. Enkele beschouwingen over de geologie van Java. Versl. Vergad. Kon. Akad. v. Wet., Afd. Nat., 27 Mei 1911, p. 19—23.
47. MARTIN, K. Vorläufiger Bericht über geolog. Forschungen auf Java, 1. Theil. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. IX, 1911, p. 1—76, mit 6 Tafeln. 2 Theil, dito p. 108—200 mit 1 Taf.
48. MARTIN, K. Notizen über die Süßwasserbivalven aus den Pithecanthropus-Schichten von Trinil. In: Selenka und Blanckenhorn, Die Pithecanthropus-Schichten auf Java, Geol. u. Pal. Ergebnisse der Trinil-Expedition, Leipzig 1911, p. 52—54.
49. MARTIN, K. Verdere beschouwingen over de geologie van Java. Versl. verg. Kon. Akad. v. Wet., Afd. Nat., 30 Maart 1912.
50. MARTIN, K. Einige allgemeine Betrachtungen über das Tertiär von Java. Geolog. Rundschau, IV, 1913, Heft 3, p. 161—173.
51. MARTIN, K. Miocäne Gastropoden von Ost-Borneo. Samml. Geol. Reichsmus. Leiden, Ser. I, Bd. IX, 1914, p. 326—336, mit 1 Textfig.
52. MARTIN, K. Die Fauna des Obereocäns von Nanggulan, auf Java. Samml. Geol. Reichsmus. Leiden, Neue Folge, Bd. II, Heft IV—V, 1914—1915, p. 105—178 u. 179—222, mit 8 Tafeln.
53. MARTIN, K. Die altmiocäne Fauna des West-Progogebirges auf Java. Samml. Geol. Reichsmus. Leiden, Neue Folge, Bd. II, Heft VI—VII, 1916—1917, p. 223—296, mit 5 Tafeln.
54. MARTIN, K. Die Gattung *Vicarya* d'Archiac. Samml. Reichsmus. Leiden, Neue Folge, Bd. II, Heft VII, 1917, p. 297—298.
55. MARTIN, K. Bemerkungen über sogenannt oligocäne und andere Versteinerungen von Celebes. Samml. Geol. Reichsmus. Leiden, Neue Folge, Bd. II, Heft VII, 1917, p. 299—308.
56. MARTIN, K. Unsere palaeozoologische Kenntniss von Java, mit einleitenden Bemerkungen über die Geologie der Insel. Leiden, 1919, mit 4 Tafeln.
57. MARTIN, K. Mollusken der Njalindungsschichten. Samml. Geol. Reichsmus. Leiden, Neue Folge, Bd. I, 2e Abth., Heft 3, 1921, p. 446—470, mit 2 Tafeln.
58. MARTIN, K. The age of the tertiary sediments of Java. Proc. first pan-pacific conference, etc., Honolulu, 1921, part III, p. 754—765.
59. MARTIN, K. Die Fossilien von Java. Samml. Geol. Reichsmus. Leiden, Neue Folge, Bd. I, 1891—1922, p. 1—538, mit 63 Tafeln (p. 446—470 = Bibl. 57).

60. MARTIN, K. Eenige opmerkingen over ouderdomsbepalingen van het Indische tertiair. *De Mijningénieur*, Febr. 1924, p. 15—19.
61. MARTIN, K. Pliocene versteeningen van Cheribon in Java. *Wet. Meded.*, No. 4, 1926, p. 1—23, met 1 pl.
62. MARTIN, K. Mollusken aus dem Neogen von Atjeh in Sumatra. *Wet. Meded. Dienst Mijnbouw*, No. 10, 1928, p. 1—35, met 1 pl.
63. MARTIN, K. Eine Nachlese zu den neogenen Mollusken von Java. *Leidsche Geol. Meded.*, III, Afl. 2, 1928, p. 105—129, met 1 pl.
- 63a. MARTIN, K. Mollusken aus dem Obereocän von Nanggulan. *Wet. Meded. Dienst Mijnbouw*, No. 18, 1931, p. 1—56.
- 63b. MARTIN, K. Wann löste sich das Gebiet des Indischen Archipels von der Tethys? *Leidsche Geol. Meded.*, DL IV, Afl. I, p. 1—8, 1931.
64. MEER MOHR, J. C. VAN DER. Op zoek naar tertiairfossielen. *Tropische Natuur*, XI, 1922, p. 97—102.
65. MEER MOHR, J. C. VAN DER. Beiträge zur Kenntnis der Pliozän-Fauna Java's. *Nat. Tijdschr. v. N. I.*: 1: 83, Afl. 2, 1923, p. 120—132; 2: 84, 1924, p. 199—201; 3: 86, 1927, p. 205—208, met 2 pl.
66. OOSTINGH, C. H. Bemerkungen über einige fossile und rezente Arca-arten des Indischen Archipels. *Senckenbergiana*, 5, Heft 3 und 4, 1923, p. 107—114.
67. OOSTINGH, C. H. Recent shells from Java, Part. I, Gastropoda. *Meded. Landbouwhoogeschool Wageningen*, 26, paper 3, 1923, p. 1—174.
68. OOSTINGH, C. H. Report on a collection of recent shells from Obi and Halmahera (Moluccas). *Communications Geol. Inst. Agricult. University Wageningen (Holland)*, No. IX, 1925, p. 1—362.
69. SCHEPMAN, M. M. Mollusken aus posttertiären Schichten von Celebes. *Samml. Geol. Reichsmus. Leiden*, Ser. I, Bd. VIII, p. 153—203, mit 4 Tafeln.
70. SIEMON, F. Jungtertiäre Mollusken fauna aus Niederl. Ost-Indien. *Ber. Naturf. Ges. Freiburg i. B.*, XXIX, 1929, p. 1—61 (309—366), mit 1 Taf. und 2 Skizz.
71. STAUB, W. Ueber die Verbreitung einiger lebender und versteinerte Lamellibranchier- und Gastropodenarten am Ausgange der Sangkulirangbai (Ost-Borneo). *Vierteljahrsschr. Nat. Gesellsch. Zürich*, Jahrg. 61, 1916, p. 120—135, mit einer Tafel.
72. TESCH, P. Versteeningen uit de z.g. mergelzandsteenformatie van de Boven-Kampar en Rokan-streken. *Jaarb. Mijnw.* 1913, *Verh.*, p. 158—164.
73. TESCH, P. Een noodzakelijke rectificatie. *Tijdschr. Kon. Ned. Aardr. Gen.*, 1916, p. 301—302.
74. TESCH, P. Jungtertiäre und quartäre Mollusken von Timor. In: J. Wanner, *Paläontologie von Timor*: 1. Lief. V; 2. Lief. VIII, 1915 und 1920, p. 1—68, mit 10 Tafeln und p. 41—121, mit 10 Tafeln.
75. TOBLER, A. Unsere paläontologische Kenntnis von Sumatra. *Eclog. geol. Helvetiae*, 18, No. 2, Dez. 1923, p. 313—342, mit 1 Tafel.
76. VAUGHAN, T. W. Notes on the tertiary deposits in Sumatra, Nias, Borneo, Celebes, Timor and Oceania. *Proc. first pan-pacific scientific conference, etc.*, Honolulu, 1921, Part. III, p. 766—769.
77. VERBEEK, R. D. M. Topographische en geologische beschrijving van Zuid-Sumatra. Met 1 geol. kaart, 24 prof., teek. en 3 plattegr. *Jaarb. Mijnw.*, 1881r, p. 3—215.
78. VERBEEK, R. D. M. Addenda et Corrigenda to Woodward's: „Notes on a collection of fossil shells from Sumatra” *Geol. Mag.*, 1880, p. 286 (= *Jaarb. Mijnw.* 1880r, p. 253—255).
79. VERBEEK, R. D. M. Topographische en geologische beschrijving van een gedeelte van Sumatra's Westkust. Batavia, Amsterdam, 1883.

80. VERBEEK, R. D. M., BOETTGER, O. und FRITSCH, K. VON. Die Tertiärformation von Sumatra und Ihre Tierreste. *Palaeontographica*, Suppl. III, 1. Lief. 8—9, 1880, mit 13 Tafeln (= *Jaarb. Mijnw.*, 1881II, p. 3—210); 2. Lief. 10—11, 1883, mit 13 Tafeln (= *Jaarb. Mijnw.*, 1883I, p. 5—284).
81. VERBEEK, R. D. M. en FENNEMA, R. *Geologische beschrijving van Java en Madoera*, n. 36 pl., atlas. Amsterdam, 1896.
82. WANNER, J. Beiträge zur Geologie und Geographie von Nordost-Borneo. Ergebnisse einer von Dr. K. Stamm in den Jahren 1913 und 1914 ausgeführten Reise, nach seinen hinterlassenen Aufzeichnungen und Sammlungen zusammengestellt und unter Mitwirkung von Prof. Dr. H. Bücking bearbeitet von J. Wanner. *Neues Jahrb. f. Min.*, Beil. Bd. 45, 1921, p. 149—213, mit 20 Karten, 4 Profilskizzen und 4 Tafeln.
83. WOODWARD, H. Notes on a collection of fossil shells from Sumatra, with 6 pl. *Geol. Mag.*, 1879, p. 385—393, 441—444, 492—500, 539—549 (= *Jaarb. Mijnw.*, 1880I, p. 203—253).
84. ZWIERZYCKI, J. Voorloopig onderzoek van fossielen, afkomstig van eenige vindplaatsen op Sumatra. *Jaarb. Mijnw.*, 1913, Verh. p. 101—129.