

XXVIII. A CATALOGUE OF THE ASIATIC
NAIADES IN THE COLLECTION OF THE
INDIAN MUSEUM CALCUTTA, WITH
DESCRIPTIONS OF NEW SPECIES

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Plate VIII.

In compiling the following catalogue the scheme generally followed is that used by Mr. C. T. Simpson in his valuable work "Synopsis of the Naiades, or Pearly Freshwater Mussels"¹; occasionally however the author, after examining the large series of specimens not only in the Indian, but also in the British Museum, has had to deviate from that system, but as far as possible Simpson's work has been incorporated in the present catalogue.

The author's thanks are especially due to Mr. Edgar A. Smith, I.S.O., of the British Museum, whose unrivalled knowledge and great courtesy in placing specimens in his hands for examination have largely helped him in his labour.

Three extra-Indian species are figured in the plate that accompanies this catalogue; the new Indian forms here described will be figured later in a volume of the "Fauna of British India."

Fam. UNIONIDAE.

Subfam. UNIONINAE, Swainson, 1840.

Gen. *Hyriopsis*, Conrad, 1853

1. *Hyriopsis bialatus*, Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 579, = *Unio delphinus*, Grunner, Arch. für Naturg., I, 1841, p. 276, pl. ix, figs. 1, 1a-c, = *Margaron (Unio) delphinus*, Lea, Syn., 1852, p. 19; 1870, p. 28, = *Unio megapterus*, Morelet, J. de Conch., XXI, 1863, p. 159.

Siam (Russel coll.), Reg. Nos. $\frac{251+2}{1}$, $\frac{5032}{1}$; Pahang River, Malay Peninsula (Dr. Cantor), Reg. No. $\frac{1991}{1}$; Cambodia, Reg. No. $\frac{5228}{1}$.

2. *Hyriopsis cumingii* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 579, = *Unio cumingii*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1852, p. 54; Lea, Jl. Ac. Nat. Sci. Philad., IV, 1860, p. 240, pl. xxxv, fig. 120, = *Margaron (Unio) cumingii*, Lea, Syn., 1852, p. 19; 1870, p. 28.

Shanghai Market, Reg. No. $\frac{4956}{1}$; Shanghai, Reg. No. $\frac{693}{1}$.

¹ Proc. U.S. Nat. Mus., Washington, D.C., XXII, 1900, pp. 501—1044.

3. *Hyriopsis myersianus* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 580, = *Unio myersianus*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 92; Jl. Ac. Nat. Sci., III, 1857, p. 290; Obs., VI, 1857, p. 10, pl. xxii, fig. 2, = *Margaron (Unio) myersianus*, Lea, Syn., 1870, p. 28, = *Unio housei*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 92; Jl. Ac. Nat. Sci. Philad., III, 1858, p. 291, pl. xxiii, fig. 3, = *Margaron (Unio) housei*, Lea, Syn., 1870, p. 28.

Cambodia, Reg. No. $\frac{1998}{1}$; Pitsanuloke, N. Siam (H. W. Biggie), Reg. No. $\frac{1447}{1}$.

4. *Hyriopsis schlegeli* (von Martens), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 581, = *Unio schlegeli*, von Martens, Mal. Blatt., VII, 1861, p. 55; Kobelt, Abh. Senck. Nat. Ges., XI, 1879, p. 421, pl. xiv, = *Barbala schlegeli*, Paetel, Conch. Sam., III, 1890, p. 175.

Lake Biwa, Japan (J. Anderson), Reg. Nos. $\frac{524}{1}$, $\frac{525}{1}$, $\frac{526}{1}$, and $\frac{527}{1}$.

Gen. *Chamberlainia*, Simpson, 1900.

5. *Chamberlainia hainesiana* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 582, = *Unio hainesianus*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 92; Jl. Ac. Nat. Sci. Philad., III, 1857, p. 289, pl. xxi, fig. 1, = *Margaron (Unio) hainesianus*, Lea, Syn., 1870, p. 28, = *Unio imperialis*, Morelet, Rev. et Mag. Zool., XIV, 1862, p. 480.

Siam (*ex coll.* Richtofen), Reg. Nos. $\frac{5161}{1}$ and $\frac{629}{1}$.

Gen. *Cristaria*, Schumacher, 1817.

Subgen. *Cristaria*, Schumacher, 1817.

6. *Cristaria plicata* (Leach), von Ihering, Abh. Senck. Nat. Ges., XVIII, 1893, p. 147; Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, pp. 583—584, = *Dipsas plicatus*, Leach, Zool. Miscell., I, 1815, p. 120, pl. iii, = *Mytilus plicatus*, Solander in Gray, Ann. of Phil., IX, 1825, p. 27, = *Appius plicatus*, Gray in Menke, Syn. Meth. Moll., 1830, p. 106, = *Margarita (Dipsas) plicatus*, Lea, Syn., 1836, p. 47; 1838, p. 28, = *Margaron (Dipsas) plicatus*, Lea, Syn., 1852, p. 46; 1870, p. 74, = *Unio plicatus*, Sowerby, Conch. Icon., XVII, 1868, pl. liv, fig. 280, = *Dipsas plicatus*, Troschel, Arch. für Naturg., XIII, 1874, p. 272; Kobelt, Abh. Senck. Nat. Ges., XI, 1879, p. 429, pls. xv—xvii, xviii, fig. 1, = *Barbala plicata*, H. and A. Adams, Gen. Rec. Moll., II, 1857, p. 501, pl. cxvii, figs. 4, 4a, = *Anodonta plicata*, Schrenck, Reis. und F. Am. Lande, II, 1867, p. 704, pl. xxvii, fig. 4, = *Anodonta (Dipsas) plicata*, Clessin, Conch. Cab. An., 1876, p. 240, pl. xxi, figs. 1, 2, = *Cristaria tuberculata*, Schumacher, Ess. Nouv. Syst., 1817, p. 140, pl. xx, fig. 2, = *Anodonta dipsas*, Blainville, Man. Mal., 1825, p. 538, pl. lxvi, fig. 2, = *Symphanota bialata*, Lea, Tr. Am. Phil. Soc., 1830, p. 445, pl. xiv, fig. 24, = *Unio bialata*, Hanley, Test. Moll., 1842, p. 219; Biv. Shells, 1843, p. 214, pl.

xxii, fig. 4,=*Barbala bialata*, Chenu, Mas., 1859, p. 145, fig. 717,=*Unio bialatus*, Deshayes, Tr. Elem. Conch., 1839, p. 19, pl. xxxi, fig. 3,=*Anodonta magnifica*, Clessin, Conch. Cab. Ano., 1870, p. 123, pl. xxxv, fig. 1,=*Dipsas occidentalis*, Heude, Conch. Fl. Nank., IX, 1885, pl. xlvi,=*Barbala occidentalis*, Paetel, Conch. Sam., III, 1890, p. 175,=*Barbala plicatula*, Paetel, Conch. Sam., III, 1890, p. 175.

Cambodia, Reg. No. $\frac{5033}{1}$; Lake Biwa, Japan (J. Anderson), Reg. Nos. $\frac{529}{1}$, $\frac{530}{1}$, $\frac{531}{1}$, $\frac{532}{1}$; Shanghai, Reg. No. $\frac{602}{1}$.

7. *Cristaria bellua* (Morelet), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, 1900, p. 584,=*Anodonta bellua*, Morelet, Rev. et Mag. Zool., XVIII, 1866, p. 167; Ser. Conch., IV, 1875, p. 331.

Cambodia, Reg. No. $\frac{5062}{1}$.

8. *Cristaria herculea* (Middendorff), von Ihering, Abh. Senck. Nat. Ges., XVIII, 1893, p. 146; Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 584,=*Anodonta herculea*, Middendorff, Bull. Phys. Math. Ac. St. Pet., VI, 1848, p. 303; Sib. Reise, II, 1851, p. 278, pl. xxi, fig. 5, xxii, figs. 1, 2, xxvi, figs. 1, 2,=*Anodonta (Dipsas) herculea*, Clessin, Conch. Cab. Ano., 1875, p. 175, pl. lix, figs. 1, 2,=*Barbala herculea*, Paetel, Conch. Sam., III, 1890, p. 175,=*Dipsas plicata* var. *clessini*, Kobelt pars, Abh. Senck. Nat. Ges., XI, 1879, p. 429, pl. xv?=*Craspedodonta smaragdina*, Anton, Verz. der Conch., 1839, p. 16, No. 592; Clessin, Conch. Cab. Ano., 1875, p. 93, pl. xxvii, fig. 2.

Amur region, Reg. No. $\frac{4979}{1}$; Lena River, E. Siberia, Reg. No. $\frac{631}{1}$.

Subgen. *Pletholophus*, Simpson, 1900.

9. *Pletholophus swinhoei* (H. Adams), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 586,=*Unio swinhoei*, H. Adams, Proc. Zool. Soc. London, 1866, p. 319; Sowerby, Conch. Icon., XVI, pl. xlii, fig. 232,=*Anodonta swinhoei*, H. Adams, Proc. Zool. Soc. London, 1866, p. 446; Clessin, Conch. Cab. Ano., 1876, p. 125, pl. lxxv, fig. 6,=*Anodon swinhoei*, Sowerby, Conch. Icon., XVI, 1868, pl. xxvii, fig. 108,=*Margaron (Unio) swinhoei*, Lea, Syn., 1870, p. 45.

Canton, Reg. Nos. $\frac{4890}{1}$, $\frac{5067}{1}$; Formosa, Reg. No. $\frac{5171}{1}$.

10. *Pletholophus reiniana* (von Martens), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 585; von Martens, Jahrb. Mal. Ges., II, 1875, p. 136, pl. iii, fig. 4,=?*Dipsas reiniana*, Kobelt, Abh. Senck. Nat. Ges., XI, 1879, p. 432, pl. xii, fig. 4, xxi, fig. 2,=*Anodonta reiniana*, von Ihering, Abh. Senck. Nat. Ges., XVIII, 1893, p. 147,=*Barbala reiniana*, Paetel, Conch. Sam., III, 1890, p. 175.

Lake Biwa, Japan (J. Anderson), Reg. No. $\frac{533}{1}$.

Gen. *Lepidodesma*, Simpson, 1896.

11. *Lepidodesma languilati* (Heude), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, pp. 586 and 587,=*Unio*

languilati, Heude, J de Conch., XXII, 1874, p. 116; Conch. fluv. Nank., 1875, Pt. I, pl. vii,=*Lepidodesma languilati*, Simpson, Proc. U.S. Nat. Mus., XVIII, 1896, p. 311.=*Cristaria megadesma*, von Martens, S.B. Nat. Fr., 1875, p. 3; Mal. Bl., XXVI, 1875, p. 187,=*Barbala megadesma*, Paetel, Conch. Sam., III, 1890, p. 175. China, Reg. No. 523.

Gen. **Pilsbryoconcha**, Simpson, 1900.

12. **Pilsbryoconcha exilis** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 587,=*Anodonta exilis*, Lea, Tr. Am. Phil. Soc., VI, 1839, p. 81, pl. xxii, fig. 68,=*Margarita (Anodonta) exilis*, Lea, Syn., 1838, p. 32,=*Anodon exilis*, Catlow and Reeve, Conch. Nom., 1845, p. 66,=*Margaron (Anodonta) exilis*, Lea, Syn., 1852, p. 51; 1870, p. 82,=*Monocondylaea exilis*, Paetel, Conch. Sam., III, 1890, p. 174,=*Anodonta siliqua*, Küster? Conch. Cab. Ano., 1852, p. 57, pl. xiv, fig. 5,=*Anodonta polita*, Mouss., L. and Süss. Moll., Java, 1849, p. 98, pl. xix, figs. 2 and 3,=*Margaron (Anodonta) polita*, Lea, Syn., 1852, p. 53,=*Anodon politus*, Sowerby, Conch. Icon., XVII, 1867, pl. xii, fig. 36,=*Monocondylaea compressa*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1863, p. 190; Jl. Ac. Nat. Sci. Philad., VI, 1866, p. 30, pl. xi, fig. 29,=*Pseudodon compressa*, Conrad, Am. Jl. Conch., I, 1865, p. 213,=*Margaron (Monocondylaea) compressa*, Lea, Syn., 1870, p. 73,=*Spatha compressa*, Paetel, Conch. Sam., III, 1890, p. 188,=*Anodon javana*, Sowerby, Conch. Icon., XVII, 1867, pl. xi, fig. 33,=*Anodon gracilis*, Sowerby? Conch. Icon., XVII, 1867, pl. xiv, fig. 45,=*Anodon kelletti*, Sowerby? Conch. Icon., XVII, 1867, pl. xix, fig. 71,=*Anodonta sempervivens*, Deshayes, Nouv. Arch. de Mus., X, 1874, p. 120, pl. v, figs. 4, 5. Java, Reg. No. 5025.

Gen. **Anodonta** (Bruguiere em), Lamarck, 1799.

13. **Anodonta woodiana**, Lea,=*Symphanota woodiana*, Lea, Tr. Am. Phil. Soc., V, 1834, p. 42, pl. v, fig. 13,=*Margarita (Anodonta) woodiana*, Lea, Syn., 1836, p. 48; 1838 p. 29,=*Anodon woodiana*, Catlow and Reeve, Conch. Nom., 1845, p. 68; Sowerby, Conch. Icon., XVII, 1870, pl. xxxvi, fig. 149,=*Anodonta woodiana*, Hanley, Test. Moll., 1842, p. 215; Biv. Shells, 1843, p. 315; H. and A. Adams, Gen. Rec. Moll., II, 1857, p. 503; Clessin, Conch. Cab. Ano., 1875, p. 146, pl. xlviii, figs. 1, 2,=*Margaron (Anodonta) woodiana*, Lea, Syn., 1852, p. 47; 1870, p. 75,=*Symphanota magnifica*, Lea, Tr. Am. Phil. Soc., V, 1834, p. 42, pl. v, fig. 14,=*Margarita (Anodonta) magnifica*, Lea, Syn., 1836, p. 48; 1838, p. 29,=*Anodonta magnifica*, Hanley, Test. Moll., 1842, p. 215; Biv. Shells, 1843, p. 215; H. and A. Adams, Gen. Rec. Moll., II, 1857, p. 503; Chem. Man., 1859, II, p. 156, fig. 719,=*Anodon magnifica*, Catlow and Reeve, Conch. Nom., 1845, p. 67; Sowerby, Conch. Icon., XVII, 1870, pl. xxv, fig. 96,=*Margaron (Anodonta) magnifica*, Lea, Syn., 1852, p. 47; 1870, p. 75,=?*Anodonta aurata*, Küster, Conch. Cab. Ano., 1853,

p. 30, pl. vi, fig. 2,=*Anodon rotundatus*, Swainson, Ex. Conch., 2nd Ed., 1841, pl. xxxvii,=*Anodon gibbum*, Benson, Jl. As. Soc. Beng., XXIV, 1855, p. 135,=*Anodon gibba*, Sowerby, Conch. Icon., XVII, 1867, pl. vi, fig. 13; Heude, Conch. Fl. Nank., VII, 1881, pl. li, fig. 95,=*Margaron (Anodonta) gibba*, Lea, Syn. 1870, p. 81, von Martens, Nov. Conch., IV 1876, p. 159, pl. cxxxvi, figs. 6, 7,=*Anodonta gibba*, Clessin, Conch. Cab. Ano., 1875, p. 181, pl. lx, fig. 4,=*Anodon tricostatus*, Sowerby, Conch. Icon., XVII, 1870, pl. xxv, fig. 98,=*Anodonta edulis*, Heude, J. de Conch., XXII, 1874, p. 117,=*Anodon edulis*, Heude, Conch. Fl. Nank., I, 1875, pl. viii, fig. 18,=*Anodonta edulis*, Paetel, Conch. Sam., III, 1890, p. 179,=*Anodon securiformis*, Heude, Conch. Fl. Nank., III, 1877, pl. xviii, fig. 39,=*Anodonta securiformis*, Paetel, Conch. Sam., III, 1890, p. 107,=*Anodon nigricans*, Heude, Conch. Fl. Nank., III, 1877, pl. xix, fig. 41,=*Anodonta nigricans*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon piscatorum*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxvi, fig. 56,=*Anodon elliptica*, Heude, Conch. Fl. Nank., IV 1878, pl. xxvii, fig. 58,=*Anodon fusca*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxviii, fig. 59,=*Anodon frinianum*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxviii, fig. 60,=*Anodon joreti*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxix, fig. 62,=*Anodon striata*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxx, fig. 63,=*Anodonta striata*, Paetel, Conch. Sam., III, 1890, p. 185,=*Anodon pacifica*, Heude, Conch. Fl. Nank., IV, 1878, pl. xxxii, fig. 66,=*Anodon tumida*, Heude, Conch. Fl. Nank., V, 1879, pl. xxxv, fig. 69,=*Anodonta tumida*, Paetel, Conch. Sam., III, 1890, p. 186,=*Anodon subtetragona*, Heude, Conch. Fl. Nank., V, 1879, pl. xxxvi, fig. 70,=*Anodon lineata*, Heude, Conch. Fl. Nank., V, 1879, pl. xxxvi, fig. 71,=*Anodonta lineata*, Paetel, Conch. Sam., III, 1890, p. 181,=*Anodon irregularis*, Heude, Conch. Fl. Nank., V, 1879, pl. xxxvii, fig. 73,=*Anodonta irregularis*, Paetel, Conch. Sam., III, 1890, p. 180,=*Anodon melanochlorea*, Heude, Conch. Fl. Nank., 1879, pl. xxxviii, fig. 74,=*Anodonta melanochlorea*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon agriculturalum*, Heude, Conch. Fl. Nank., V, 1879, pl. xxxix, fig. 75,=*Anodonta agriculturalum*, Paetel, Conch. Sam., III, 1890, p. 176,=*Anodon mingorum*, Heude, Conch. Fl. Nank., V, 1879, pl. xl, fig. 77,=*Anodonta mingorum*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon bigibba*, Heude, Conch. Fl. Nank., VI, 1880, pl. xli, fig. 78,=*Anodonta bigibba*, Paetel, Conch. Sam., III, 1890, p. 177,=*Anodon despecta*, Heude, Conch. Fl. Nank., V, 1880, pl. xli, fig. 79,=*Anodon obtusa*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlii, fig. 80,=*Anodon navicula*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlii, fig. 81,=*Anodonta navicula*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon orbicularis*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlii, fig. 82,=*Anodonta orbicularis*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon limosa*, Heude, Conch. Fl. Nank., VI, 1880, pl. xliii, fig. 83,=*Anodonta limosa*, Paetel, Conch. Sam., III, 1890, p. 181,=*Anodon livida*, Heude, Conch.

Fl. Nank., 1880, pl. xliii, fig. 84,=*Anodonta livida*, Paetel, Conch. Sam., III, 1890, p. 181,=*Anodon castanea*, Heude, Conch. Fl. Nank., 1880, pl. xliii, fig. 85,=*Anodonta castanea*, Paetel, Conch. Sam., III, 1890, p. 177,=*Anodon minuta*, Heude, Conch. Fl. Nank., VI, 1880, pl. xliv, fig. 86,=*Anodonta minuta*, Paetel, Conch. Sam., III, 1890, p. 182,=*Anodon succinea*, Heude, Conch. Fl. Nank., VI, 1880, pl. xliv, fig. 87,=*Anodonta succinea*, Paetel, Conch. Sam., III, 1890, p. 185,=*Anodon chiniana*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlv, fig. 88,=*Anodonta chiniana*, Paetel, Conch. Sam., III, 1890, p. 177,=*Anodonta scaphydium*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlvi, fig. 89,=*Anodonta scaphydium*, Paetel, Conch. Sam., III, 1890, p. 184,=*Anodon puerorum*, Heude, Conch. Fl. Nank., VII, 1880, pl. xlvii, fig. 90,=*Anodonta puerorum*, Paetel, Conch. Sam., III, 1890, p. 183,=*Anodon indecora*, Heude, Conch. Fl. Nank., VI, 1880, pl. xlviii, fig. 91,=*Anodonta indecora*, Paetel, Conch. Sam., III, 1890, p. 180,=*Anodon sorini*, Heude, Conch. Fl. Nank., VII, 1881, pl. xlix, fig. 92,=*Anodonta sorini*, Paetel, Conch. Sam., III, 1890, p. 185,=*Anodon rosea*, Heude, Conch. Fl. Nank., VII, 1881, pl. 1, fig. 93,=*Anodonta rosea*, Paetel, Conch. Sam., VII, 1890, p. 184,=*Anodon aubreyi*, Heude, Conch. Fl. Nank., VII, 1881, pl. lii, fig. 97,=*Anodonta aubreyi*, Paetel, Conch. Sam., III, 1890, p. 176,=*Anodon confusa*, Heude, Conch. Fl. Nank., VII, 1881, pl. liii, fig. 99,=*Anodonta confusa*, Paetel, Conch. Sam., III, 1890, p. 178,=*Anodon obtusata*, Heude, Conch. Fl. Nank., VII, 1881, pl. liv, fig. 100,=*Anodon rubella*. Heude, Conch. Fl. Nank., VII, 1881, pl. liv, fig. 100 bis,=*Anodonta rubella*, Paetel, Conch. Sam., III, 1890, p. 184,=*Anodon pulchella*, Heude, Conch. Fl. Nank., VII, 1881, pl. lv, fig. 101,=*Anodonta pulchella*, Paetel, Conch. Sam., III, 1890, p. 183,=*Anodon florida*, Heude, Conch. Fl. Nank., VII, 1881, pl. lv, fig. 102,=*Anodonta florida*, Paetel, Conch. Sam., III, 1890, p. 179,=*Anodonta retusa*, Heude, Jl. de Conch., XXXII, 1884, p. 20,=*Anodon intermerata*, Heude, Conch. Fl. Nank., IX, 1885, pl. lxvii, fig. 130,=*Anodonta intermerata*, Paetel, Conch. Sam., III, 1890, p. 180,=*Anodon filippiana*, Heude, Conch. Fl. Nank., IX, 1885, pl. lxviii, fig. 131,=*Anodonta filippiana*, Paetel, Conch. Sam., III, 1890, p. 183,=*Anodon fantozatiana*, Heude, Conch. Fl. Nank., IX, 1885, pl. lxix, fig. 132,=*Anodonta fantozatiana*, Paetel, Conch. Sam., III, 1890, p. 179.

Canton River, Reg. Nos. $\frac{4941}{1}$, $\frac{4942}{1}$; Shanghai, Reg. Nos. $\frac{5022}{1}$, $\frac{5058}{1}$, $\frac{5042}{1}$, $\frac{607}{1}$, $\frac{5178}{1}$, $\frac{604}{1}$, $\frac{606}{1}$; N. China, Reg. No. $\frac{5231}{1}$; Zinzay, N. China, Reg. No. $\frac{5168}{1}$.

14. *Anodonta* sp.? A single, malformed specimen. Kandahar, Reg. No. $\frac{4948}{1}$.

Gen. Gabilliotia, Servain, 1890.

15. *Gabilliotia euphratica* (Bourguignat), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 650,=*Unio euphraticus*,

Bourguignat, Test. Nov., 1852, p. 28; Cat. Rais., 1853, pl. iv, figs. 1—3, = *Pseudodon euphratica*, Conrad, Am. Jl. Conch. I, 1865, p. 233, = *Margaritana euphratica*, von Martens, Vorderas. Conch., 1874; Kobelt, Icon., new ed., II, 1886, p. 26, pl. xlv, fig. 266, = *Leguminaia euphratica*, Westerlund, Faun. Pal., II, Pt. 7, 1890, p. 188, = *Unio churchillianus*, Sowerby, Conch. Icon., XVI, 1868, pl. xcvi, fig. 526.

Bagdad, Reg. No. $\frac{1982}{1}$.

Gen. *Solenaia*, Conrad, 1868.

16. *Solenaia soleniformis* (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 656, = *Anodonta soleniformis*, Benson, Journ. As. Soc. Beng., V, 1836, p. 750, = *Spatha soleniformis*, Hanley and Theobald, Conch. Ind., pl. ix, fig. 1, = *Mycetopus soleniformis*, Fischer, Jl. de Conch., XXXVIII, 1890, p. 94, = *Margaron (Unio) bensoni*, Lea, Syn., 1870, p. 57, = *Mycetopus bensonianus*, Paetel, Conch. Sam. III, 1890, p. 186.

Cachar, Reg. Nos. $\frac{4700}{1}$, $\frac{5059}{1}$, $\frac{5060}{1}$.

Gen. *Margaritana*, Schumacher, 1817.

17. *Margaritana margaritifera* (Linnaeus), Schumacher, Ess. Nouv. Syst., I, 1817, p. 124, pl. x, fig. 4; Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 674—677, etc., = *Mya margaritifera*, Lister, Hist. Anim. Ang. App., 1865, pl. i, fig. 1, etc., = *Mya margaritifera, testa ovali oblonga, etc.*, — Möller, Zool. Danicae, 1776, p. 245; Chemnitz, Conch. Cab. VI, 1782, p. 15, pl. i, fig. 5, = *Baphiae margaritifera*, Meuschen, Mus. Gevers., 1787, p. 472, = *Unio margaritifera*, Drapernaud, Tab. Moll. Fr., 1801, p. 107; Hist. Moll. Fr., 1806, p. 132, pl. x, figs. 17—19, pl. xi, fig. 5? etc., = *Alasmodonta margaritifera*, Conrad, New F. W. Shells, 1834, p. 72, = *Margarita (Margaritana) margaritifera*, Lea, Syn., 1836, p. 45; 1838, p. 28, = *Margaron (Margaritana) margaritifera*, Lea, Syn., 1852, p. 43; 1870, p. 69, = *Baphia margaritifera*, H. & A. Adams, Gen. Rec. Moll., II, 1857, p. 499; III, pl. cxvii, figs. 2, 2a, = *Unio margaritiferus*, Retzius, Dis. S. Hist. Nat., 1788, p. 16; Spengler, Skriv. Nat. Selsk., III, 1793, p. 52; Turton, Conch. Ins. Brit., 1822, p. 241, pl. xvi, fig. 1, = *Alasmodon margaritiferus*, Brown, L. & F. W. Conch., 1836, p. 112, pl. xxi, fig. 13, pl. xxii, figs. 1, 3, = *Margaritana margaritiferus*, Westerlund, Faun. Pal., II, Pt. 7, 1890, p. 184, = *Alasmodon margaritiferum*, Fleming, Hist. Brit. Moll., 1828, p. 417, = *Unio margaritifer* var. *minor*, Rossmässler, Icon., Pt. 2, 1835, p. 19, pl. ix, fig. 129, = *Unio margaritifer*, Küster, Conch. Cab., 1856, p. 130, pls. xxxviii, xxxix, = *Unio (Margaritana) margaritifera*, Schrenck, Reis. und F. in Amur Lande, II, 1867? p. 700, = *Unio auricularius*, Spengler, Skriv. Nat. Selsk., III, 1793, p. 44, = *Unio elongata*, Lamarck, An. sans. Vert., VI, 1819, p. 70, = *Damaris elongata*, Leach, Syn. Moll. Gt. Brit., 1852, p. 322, = *Margaritana elongata*, Westerlund,

Faun. Pal., II, Pt. 7, 1890, p. 185; Locard, Coq. de Fr., 1893, p. 149, fig. 162, = *Unio elongatus*, Nilsson, Hist. Moll. Swec., 1822, p. 16; Sowerby, Conch. Icon., XVI, 1868, pl. lxxvi, fig. 397, = *Alasmodonta arcuata*, Barnes, Am. Jl. Sci., VI, 1823, p. 227, pl. xii, fig. 20, = *Mya arcuata*, Eaton, Zool. Text book, 1826, p. 222, = *Alasmodon arcuata*, Stimpson, Shells of New Eng., 1851, p. 15; Küster, Conch. Cab., 1856, p. 293, pl. xxxix, fig. 1, = *Unio sinuata*, C. Pfeiffer, Nat. Deutsch L. & W. Moll., Pt. 2, 1825, p. 33, pl. vii, fig. 4, = *Unio roissyi*, Michaud, Comp. Hist. Moll. Fr., 1831, p. 112, pl. xvi, fig. 28, = *Margaritana roissyi*, Westerlund, Faun. Pal., II, Pt. 7, 1890, p. 186, = *Unio tristis*, Morelet, Moll. Portugal, 1845, p. 107, pl. xiii, fig. 2, = *Margarita (Unio) crassiamus*, Lea, Syn., 1836, p. 40; 1838, p. 26, = *Unio (Alasmodonta) dahuricus*, Middendorff, Bull. Phys. Math. Ac. St. Petersb., IX, 1850, p. ?; Sib. Reise, II, 1851, p. 275, pl. xxvi, figs. 3, 5, = *Unio dahuricus*, Middendorff, L. & S. Moll. Sib., 1859, p. 26, = *Unio (Margaritana) dahurica*, Kobelt, Abh. Senck. Nat. Ges., XI, 1875, p. 427; Kobelt, Faun. Jap. Ext., 1879, p. 143, pl. xiii, figs. 1, 2, = *Alasmodon falcata*, Gould, Proc. Boston. Soc. Nat. Hist., III, 1850, p. 294; Otia Conch., 1862, p. 87; U. S. Expl. Exp. XII, 1852, p. 433, figs. 545, 545a, 545b, = *Unio falcatus*, Sowerby, Conch. Icon., XVI, 1868, pl. lxxv, fig. 390, = *Unio (Alasmodonta) complanatus*, Middendorff, Sib. Reise, II, 1851, Pt. I, p. 273, pl. xxvii, figs. 1-6, = *Margaritana complanata*, Westerlund, Fauna Pal., II, Pt. 7, 1890, p. 187, = *Alasmodon yubaensis*, Trask, Proc. Cal. Acad. Sci., I, 1855, p. 30, = *Margaritana raveneliana*, Chenu, Man., 1859, II, p. 144, fig. 714.

Chitose, Yezo, Japan (J. Anderson), Reg. No. $\frac{539}{1}$.

Gen. *Unio*, Retzius, 1788.

18. *Unio mussolianus*, Küster, Conch. Cab. Unio., 1861, p. 244, pl. lxxxii, fig. 1, = *Unio bourguignatianus*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1863, p. 189; Jl. Ac. Nat. Sci. Philad., VI, 1866, p. 54, pl. xviii, fig. 51, = *Margaron (Unio) bourguignatianus*, Lea, Syn., 1870, p. 39, = *Unio rasmus*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1863, p. 189; Jl. Ac. Nat. Sci. Philad., VI, 1866, p. 50, pl. xvii, fig. 47, = *Margaron (Unio) rasmus*, Lea, Syn., 1870, p. 58, = *Unio mosulensis*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1863, p. 190; Jl. Ac. Nat. Sci. Philad., VI, 1866, p. 52, pl. xvii, fig. 49, = *Margaron (Unio) mosulensis*, Lea, Syn., 1870, p. 48, = *Margaritana mosulensis*, Paetel, Conch. Sam., III, 1890, p. 173.

River Tigris, Reg. No. $\frac{5011}{1}$.

19. *Unio modiola*, sp. n. (Pl. viii, figs. 1, 2.)

Shell elongately oblong, somewhat curved, solid, covered with a chocolate coloured, laminiferous periostracum, both valves concentrically striate; umbones large, but not prominent, somewhat coarsely corrugate; dorsal margin slightly arched; ventral margin curvedly excavated in the median posterior region; anterior side somewhat produced, rounded above, sloping below; posterior

side produced, rounded; cardinal teeth rather anteriorly situate, triangular, erect; lateral teeth anteriorly very short, posteriorly elongate and abruptly terminating; anterior adductor scars deeply impressed; posterior scars slight; interior of shell very slightly iridescent, sculptured with fine irregular ridges somewhat resembling the marks of coarse finger prints.

Long. 45, lat. 86 mm.

Hab.—River Tigris, Reg. No. $\frac{2434}{1}$ [Type].

20. *Unio mongolicus*, Middendorff, Sib. Reise, II, 1851 p. 277, pl. xxvii, figs. 7, 8.

Upper Indus, Reg. No. $\frac{5054}{1}$.

21. *Unio tigridis*, Bourguignat, Test. Nov. Saul., 1852, p. 30 Cat. Rais. Moll., 1853, p. 77, pl. iv, figs. 7, 9, = *Unio truncatus*, Swainson, Zool. Ill., 2nd Ser., I, 1829, pl. x, = *Margarita (Unio) truncatus*, Lea, Syn., 1836, p. 21; 1838, p. 18, = *Margaron (Unio) truncatus*, Lea, Syn., 1852, p. 26; 1870, p. 39, = *Unio dignatus*, Lea, Proc. Ac. Nat. Sci. Philad., VII, 1863, p. 189; J1. Ac. Nat. Sci. Philad., VI, 1866, p. 51, pl. xvii, fig. 48, = *Margaron (Unio) dignatus*, Lea, Syn., 1870, p. 39, = *Margaron (Unio) tigris*, Lea, Syn., 1870, p. 39, = ? *Unio kisonis*, Kobelt, Icon., 1st sup., 1895, p. 17, pl. vii, figs. 2, 3.

River Tigris, Asiatic Turkey, Reg. No. $\frac{625}{1}$.

22. *Unio terminalis*, Bourguignat, Test. Noviss., 1852, p. 31; Cat. Rais. Moll., 1853, p. 76, pl. iii, figs. 4—6 etc., = *Margaron (Unio) terminalis*, Lea, Syn., 1870, p. 39.

Jordan Valley, Reg. No. $\frac{4724}{1}$.

23. *Unio ascia*, Hanley, Rec. Biv. Shells, 1856, p. 385, pl. xxiii, fig. 20.

Penang, Reg. No. $\frac{4055}{1}$.

24. *Unio perakensis*, sp. n. (Pl. viii, figs. 5, 6.)

Shell closely allied to *Unio pressirostris*,¹ Von Martens, of which it may ultimately prove to be a variety, but differing from that species in its less cuneate form and larger size, in its less contracted anterior side and more obtuse and sloping posterior side.

Long. 31, lat. 85.5, diam. 21 mm.

Hab.—Perak, Reg. No. $\frac{616}{1}$ [Type].

Gen. *Shistodesmus*, Simpson, 1900.

25. *Shistodesmus lampreyanus* (Baird and Adams), Simpson, Syn. Naides, Proc. U. S. Nat. Mus., XXII, p. 804, = *Unio (Dysnomia) lampreyanus*, Baird and Adams, Proc. Zool. Soc. London, 1867, p. 491, pl. xxvi, figs. 2, 2a, = *Margaron (Unio) lampreyanus* Lea, Syn., 1870, p. 30.

Shanghai, Reg. No. $\frac{608}{1}$.

¹ Nachrichtsbl. d. D. Malak. Ges., 1900, p. 14.

Subfam. *HYRINAE*, Swainson.

Gen. *Nodularia*, Conrad, 1853.

Sec. *LANCEOLARIA*, Conrad, 1853.

26. *Nodularia (Lanceolaria) oxyrynchus* (Mart.), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 807, = *Unio oxyrynchus*, Martens, Mal. Blatt. VII, 1861, p. 57; Kobelt, Abh. Senck. Nat. Ges. XL, 1879, p. 420, pl. xiii, figs. 3, 4.

Japan, Reg. No. $\frac{5229}{1}$.

Sec. *NODULARIA*, Conrad, 1853.

27. *Nodularia (Nodularia) douglasiae* (Gray), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 808; Griff. An. King. XII, 1833, (p. 601, index 1834), pl. xxi, fig. 2, = *Unio murchisonianus*, Lea, Tr. Am. Phil. Soc., V, 1834, p. 33, pl. iii, fig. 6; Obs., I, 1834, p. 145, pl. iii, fig. 6, = *Margarita (Unio) murchisonianus*, Lea, Syn., 1836, p. 14; 1838, p. 14, = *Margaron (Unio) murchisonianus*, Lea, Syn., 1852, p. 21; 1870, p. 32, = *Unio osbecki*, Phil. Zeits. für Mal., 1845, p. 164; Conch., III, Pt. II, p. 45, pl. iii, fig. 1, = *Margaron (Unio) osbecki*, Lea, Syn., 1852, p. 21; 1870, p. 32, = *Unio nux-persicus*, Dunker, Zeits. für Mal., 1848, p. 83; Musgrave, Phot. Conch., 1863, pl. i, fig. 10, = *Margaron (Unio) nux-persicus*, Lea, Syn., 1870, p. 32, = *Unio sculptus*, Deshayes, Bull. Nouv. Arch. Mus., IX, 1873, p. 9, pl. i, figs. 3, 3a, = *Unio dactylinus*, Heude, Conch. Fl. Nank., 1885, pl. lxxv, = ? *Unio pictorum* var. *longirostris*, West, Kong. sv. vet. Ak. Hand., XIV, No. 12, p. 74, = *Unio schrencki*, West, = *Unio abbreviatus*, West.

Ningpo, China, Reg. No. $\frac{5227}{1}$; Shanghai, Reg. No. $\frac{2561}{1}$; N. China, Reg. No. $\frac{5166}{1}$; China, Reg. No. $\frac{605}{1}$.

27a. Var. *shanghaiensis*, Lea, = *Unio shanghaiensis*, Lea, Proc. Ac. Nat. Sci. Philad., III, 1859, p. 153; Jl. Ac. Nat. Sci. Philad., IV, 1860, p. 242, pl. xxxvi, fig. 121.

Shanghai, Reg. No. $\frac{2555}{1}$; Chinkiang, China, Reg. No. $\frac{5226}{1}$.

28. *Nodularia (Nodularia) caerulea* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 811, = *Unio caeruleus*, Lea, Tr. Am. Phil. Soc., IV, p. 95, pl. xiii, fig. 25; Obs., I, p. 105, pl. xiii, fig. 25, = *Margarita (Unio) caeruleus*, Lea, Syn., 1836, p. 20, = *Margaron (Unio) caeruleus*, Lea, Syn., 1852, p. 30; 1870, p. 47, = *Unio gerbidoni*, Eydoux, Guer. Mag., 1838, p. 9, pl. cxviii, figs. 2, 2a, 2b; Hanley and Theobald, Conch. Ind., 1876, p. 6, pl. xii, fig. 2, = *Unio substriatus*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 93; Obs. VI, 1857, p. 20, pl. xxvi, fig. 14, = *Margaron (Unio) substriatus*, Lea, Syn., 1870, p. 47, = *Unio humilis*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 93; Obs., VI, 1857, p. 16, pl. xxvi, fig. 10, = *Margaron (Unio) humilis*, Lea, Syn., 1870, p. 32, = *Unio corrianus*, Küster, Conch. Cab. Unio., 1861, p. 229, pl. lxxvii, fig. 5, = *Unio leioma*, Benson, Ann. Mag. Nat. Hist., 1862, p. 192; Hanley and Theobald, Conch. Ind.,

1876, p. 6, pl. xii, fig. 5, = *Unio pilatus*, Lea, Proc. Ac. Nat. Sci., Philad., X 1866, p. 133; Jl. Ac. Nat. Sci., Philad., VI, 1868, p. 181, pl. xxxviii, fig. 95, = *Margaron (Unio) pilatus*, Lea, Syn., 1870, p. 47, = *Unio evitatus*, Lea, Proc. Ac. Nat. Sci., Philad., X, 1868, p. 133; Jl. Ac. Nat. Sci., Philad., VI, 1868, p. 279, pl. xxxviii, fig. 92, = *Margaron (Unio) cristatus*, Lea, Syn., 1870, p. 47, = *Unio tirostris*, Sowerby, Conch. Icon., XVI, pl. lxxv, fig. 331.

Saharanpur, United Provinces, Reg. Nos. $\frac{5181}{1}$ and $\frac{5189}{1}$; Sind, Reg. Nos. $\frac{5172}{1}$ and from a jheel near Rohri, Sukkur Dist., Reg. Nos. $\frac{5193}{1}$ and $\frac{5194}{1}$; Rajputana, Reg. No. $\frac{5051}{1}$; Singpal Garhi, Nepal, Reg. No. $\frac{5112}{1}$; Kockh(?) Reg. No. $\frac{5097}{1}$; Rampur, Reg. No. $\frac{5063}{1}$; Calcutta, Reg. Nos. $\frac{5176}{1}$, $\frac{4713}{1}$ (W. Theobald), $\frac{5176}{1}$, $\frac{5195}{1}$, $\frac{5157}{1}$, $\frac{5035}{1}$, $\frac{5197}{1}$ (G. Nevill); Belgachia, Calcutta, and Maidan tank (N. Annandale), Reg. Nos. $\frac{4735}{1}$, $\frac{4743}{1}$ and $\frac{4744}{1}$; Siliguri, Reg. No. $\frac{4871}{1}$; Patna, Reg. No. $\frac{2162}{1}$; Phenchooganj, Central Sylhet, Reg. No. $\frac{1562}{1}$; Barrack River, Silchar, Reg. No. $\frac{4863}{1}$; Darjeeling (R. Carter), Reg. No. $\frac{5212}{1}$; Ballygunge, near Calcutta, Reg. No. $\frac{4949}{1}$; Jamalpur, Reg. No. $\frac{5021}{1}$; Sambalpur, Bengal, Reg. No. $\frac{5200}{1}$; Bagh, Central India (W. T. Blanford), Reg. No. $\frac{5222}{1}$; Nerbudda, Central Provinces (W. T. Blanford), Reg. No. $\frac{5203}{1}$; Lower Nerbudda, Central Provinces, Reg. Nos. $\frac{5174}{1}$ and Burwani, $\frac{5173}{1}$; Hazrapur, Bengal, Reg. No. $\frac{5210}{1}$; Rajmahal, Bengal (W. T. Blanford), Reg. No. $\frac{5212}{1}$; Manbhoom, Bengal, Reg. Nos. $\frac{5177}{1}$ and $\frac{5014}{1}$; River Dukkaree, Umballa, Punjab Dist., Reg. No. $\frac{5221}{1}$; Bhagu'pur, Bengal (Capt. Sherwill), Reg. No. $\frac{5211}{1}$; Poonasa, Central India (W. T. Blanford), Reg. No. $\frac{5201}{1}$.

28a. Var. *gaudichaudii* (Eydoux), = *Unio gaudichaudii*, Eydoux, Mag. de Zool., 1838, Cl. V, p. 10, pl. cxviii, fig. 3, = *Margaron (Unio) gaudichaudii*, Lea, Syn., 1850, p. 32; 1870, p. 50.

Dacca, Bengal, Reg. No. $\frac{5181}{1}$; Bengal (Laidley), Reg. No. $\frac{5218}{1}$.

28b. Var. *keraudreni* (Eydoux), = *Unio keraudreni*, Eydoux, Mag. de Zool., 1838, Cl. V, p. 8, pl. cxviii, fig. 1, = *Margaron (Unio) keraudreni*, Lea, Syn., 1852, p. 30; 1870, p. 46.

Damuda, Bengal (W. T. Blanford), Reg. No. $\frac{5183}{1}$; Chandernagore, Bengal, Reg. No. $\frac{5190}{1}$.

29. *Nodularia (Nodularia) shurtleffiana* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 813, = *Unio shurtleffianus*, Lea, Proc. Ac. Nat. Sci., Philad., VIII, 1856, p. 94; Obs., VI, p. 22, pl. xxvii, fig. 17; Jl. Ac. Nat. Sci., Philad., III, p. 302, = *Margaron (Unio) shurtleffianus*, Lea, Syn., 1870, p. 32.

Myadoug, Burma, Reg. No. $\frac{3539}{1}$; Shuaygoomyo, Burma, Reg. No. $\frac{3540}{1}$; Putna, Mirzapur Dist., U P. (R. Hodgart), Reg. No. $\frac{6001}{1}$; Lucknow (Museum Collector), Reg. No. $\frac{1821}{1}$, (S. Kemp) Reg. Nos. $\frac{5466}{3}$ and $\frac{5467}{1}$.

30. *Nodularia (Nodularia) occata* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 813, = *Unio occatus*, Lea, Proc. Ac. Nat. Sci., Philad., IV, 1860, p. 307; Jl. Ac. Nat. Sci., Philad., VI, 1863, p. 398, pl. 1, fig. 304; Obs., X, 1863, p. 34, pl. 1,

fig. 304, = *Margaron (Unio) occatus*, Lea, Syn., 1870, p. 31, = *Unio macilentus*, Benson, Ann. Mag. Nat. Hist., Ser. 3, 1862, p. 187; Hanley and Theobald, Conch. Ind., p. 5, pl. x, figs. 2, 4; p. 62, pl. cliv, fig. 5, = *Unio rugosus*, Hanley and Theobald, Conch. Ind., p. 62, pl. cliv, fig. 3.

Saharanpur, Reg. No. $\frac{2553}{1}$; Phenchooganj, Sylhet, Reg. No. $\frac{5140}{1}$; Barrack River, Cachar, Reg. No. $\frac{5046}{1}$; Cachar, Reg. No. $\frac{2562}{1}$; Myadong, Upper Burma, Reg. No. $\frac{6092}{1}$; North-East Cachar, Reg. No. $\frac{5156}{1}$; Pegu, Burma (W. Theobald), Reg. No. $\frac{6093}{1}$ and $\frac{5168}{1}$; Saharanpur, United Provinces (J. Wood-Mason), Reg. No. $\frac{5207}{1}$; Wurda, Central Provinces (W. T. Blanford), Reg. No. $\frac{5205}{1}$; Bhamo, Upper Burma, Reg. No. $\frac{5198}{1}$; Calcutta (G. Nevill), Reg. No. $\frac{6094}{1}$.

31. **Nodularia (Nodularia) pachysoma** (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 813, = *Unio pachysoma*, Benson, Ann. Mag. Nat. Hist., X, 1862, p. 186; Hanley and Theobald, Conch. Ind., 1876, p. 6, pl. xii, fig. 1, = *Margaron (Unio) pachysoma*, Lea, Syn., 1870, p. 63, = *Unio pachystoma*, Paetel, Conch. Sam., III, 1890, p. 162.

Sawaddy, Burma (J. Anderson), Reg. No. $\frac{2415}{1}$; Burma (W. Theobald), Reg. No. $\frac{5155}{1}$; Assam (Robinson), Reg. No. $\frac{5160}{1}$; Irrawaddy (J. Anderson), Reg. No. $\frac{5200}{1}$; Calcutta, Reg. Nos. $\frac{6095}{1}$ and (N. Annandale) $\frac{4742}{1}$; Berhampur (R. E. Lloyd), Reg. No. $\frac{4747}{1}$.

32. **Nodularia (Nodularia) chaudhurii**, sp. n.

Shell small, rather thin, elongately ovate, pale olive, covered with a finely laminiferous periostracum; both valves concentrically striate, sculptured with irregular, minute, nodulous, radiate ridges which appear posteriorly as regular corrugations; umbones small, somewhat prominent; dorsal margin slightly arched; ventral margin straight; anterior side produced, rounded; posterior side bluntly rostrate, abruptly sloping above and below; hinge-teeth elongate, anteriorly projecting; anterior scars deep, roundly triangular; posterior scars scarcely impressed; interior of shell iridescent, nacreous, posteriorly corrugate.

Long. 12.75; lat. 23 mm.

Hab.—Upper Burma, Reg. No. $\frac{2545}{1}$ [Type].

33. **Nodularia (Nodularia) bonneaudi** (Eydoux), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 813, = *Unio bonneaudi*, Eydoux, Mag. de Zool., 1838, pl. 119, figs. 1, 1a; Hanley and Theobald, Cat. L. and F. W. Shells, Brit. Ind., pp. 48, 49; Hanley and Theobald, Conch. Ind., pl. x, fig. 6, = *Margaron (Unio) bonneaudi*, Lea, Syn., 1852, p. 32; 1870, p. 50.

Pegu, Reg. Nos. $\frac{2376}{1}$, $\frac{5101}{1}$, $\frac{2425}{1}$, $\frac{5096}{1}$; Shuaygoomyo, Burma, Reg. Nos. $\frac{5179}{1}$ and (W. T. Blanford) $\frac{5216}{1}$; Zayleyman, Upper Burma (J. Anderson), Reg. No. $\frac{5202}{1}$; Cachar, Reg. No. $\frac{5185}{1}$; Bhamo, Reg. Nos. $\frac{5197}{1}$ and (J. Anderson) $\frac{5114}{1}$; Tenasserim (W. T. Blanford), Reg. No. $\frac{5219}{1}$; Myadong, Upper Burma, Reg. Nos.

$\frac{5199}{1}$, $\frac{5233}{1}$; Irrawaddy River at Sagaing (J Coggin Brown), Reg. Nos. $\frac{4739}{1}$ to $\frac{4741}{1}$.

34. **Nodularia (Nodularia) andersoniana** (Nevill), = *Unio andersonianus*, Nevill, Jl. As. Soc. Beng., XLVI, 1877, p. 40; Yunnan Exp., pl lxxx, fig. 9.

Barrack River, Silchar; Reg. No. $\frac{4870}{1}$; Assam, Reg. No. $\frac{2499}{1}$; Myadong, Upper Burma (J. Anderson), Reg. Nos. $\frac{5192}{1}$ [Type] and $\frac{5217}{1}$, $\frac{5191}{1}$; Siliguri, N. Bengal, Reg. No. $\frac{5225}{1}$.

35. **Nodularia (Nodularia) pugio** (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 814, = *Unio pugio*, Benson, Ann. Mag. Nat. Hist., Ser. 3, X, p. 193; Sowerby, Conch. Icon., pl. xcv, fig. 516.

Pegu, Reg. Nos. $\frac{5023}{1}$ and (W. Theobald) $\frac{5170}{1}$; Myadong, Upper Burma (J Anderson), Reg. No. $\frac{5213}{1}$; Sawaddy, Burma, Reg. No. $\frac{3163}{1}$; Tenasserim, Lower Burma (W. T. Blanford), Reg. No. $\frac{5219}{1}$; Zayleyman (J Anderson), Reg. No. $\frac{5208}{1}$; Arakan, Reg. No. $\frac{5039}{1}$.

36. **Nodularia (Nodularia) crispata** (Gould), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 815, = *Unio crispata*, Gould, Proc. Bost. Soc. Nat. Hist., I, 1843, p. 141; Otia Conch., 1862, p. 191, = *Unio crispatus*, Catlow and Reeve, Conch. Nom., 1845, p. 58; Hanley and Theobald, Conch. Ind., 1876, p. 21, pl. xlv, fig. 1, = *Margaron (Unio) crispatus*, Lea, Syn., 1870, p. 32, = *Unio scobinatus*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 93; Obs., VI, 1857, p. 19, pl. xxvi, fig. 13, = *Margaron (Unio) scobinatus*, Lea, Syn., 1870, p. 32, = *Unio mandarinus*, Morelet, J. de Conch., XII, 1863, p. 159, = *Unio pellis-lacerti*, Morelet, J de Conch., XIII, 1865, p. 22; Sowerby, Conch. Icon., XVI, 1868, pl. lxxxvi, fig. 457, = *Unio venustus*, Morelet, J de Conch., XIV, 1866, p. 63, = *Unio oblatu*s, Lea, Syn., 1870, p. 64.

Siam, Reg. Nos. $\frac{2552}{1}$ and $\frac{4722}{1}$; Battambang, Cambodia, Reg. No. $\frac{5024}{1}$; Bhamo, Reg. No. $\frac{3856}{1}$.

37. **Nodularia (Nodularia) scobina** (Hanley), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 816, = *Unio scobina*, Hanley, Rec. Biv., p. 382, pl. xxiii, fig. 40; Hanley and Theobald, Cat. L. and F. W. Shells Brit. Ind., p. 49; Hanley and Theobald, Conch. Ind., pl. xlvi, fig. 2.

Sibsagar, Assam (S. E. Peel), Reg. No. $\frac{2554}{1}$.

38. **Nodularia (Nodularia) ingallsiana** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 816, = *Unio ingallsianus*, Lea, Tr. Am. Phil. Soc., X, pl. xxiv, fig. 41; Obs., V, 1852, p. 38, pl. xxiv, fig. 41, = *Margaron (Unio) ingallsianus*, Lea, Syn., 1852, p. 36; 1870, p. 58.

Cambodia, Reg. No. $\frac{5014}{1}$; Siam, Reg. No. $\frac{2556}{1}$.

39. **Nodularia (Nodularia) pazii** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 816, = *Unio pazii*, Lea, Proc. Ac. Nat. Sci., Philad., VI, 1862, p. 176; Jl. Ac. Nat. Sci., Philad.,

VI, p. 61, pl. xxi, fig. 60; Obs., XI, p. 65, pl. xxi, fig. 60,=
Margaron (Unio) pazii, Lea, Syn., 1870, p. 39.

China, Reg. No. $\frac{624}{1}$.

40. **Nodularia (Nodularia) olivaria** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 817,=*Unio olivarius*, Lea, Tr. Am. Phil. Soc., IV, p. 108, pl. xvi, fig. 38; Obs., I, p. 118, pl. xvi, fig. 33; Hanley and Theobald, Conch. Ind., p. 5, pl. x, fig. 1,=*Margarita (Unio) olivarius*, Lea, Syn., 1836, p. 26; 1838, p. 20; 1852, p. 30; 1870, p. 47,=*Unio pumilio*, Küster, Conch. Cab. Unio, 1862, p. 268, pl. xc, fig. 7.

Assam, Reg. Nos. $\frac{2472}{1}$, $\frac{5159}{1}$; Saharanpur, Reg. Nos. $\frac{2445}{1}$ and $\frac{5221}{1}$; East Cachar (Museum Collector), Reg. No. $\frac{5205}{1}$; Moradabad, United Provinces (Laidlay), Reg. No. $\frac{5180}{1}$; North-East Cachar, Reg. No. $\frac{6097}{1}$; Raniganj, Bengal, Reg. No. $\frac{5182}{1}$.

41. **Nodularia (Nodularia) theobaldi** (Nevill, MS.), sp. n.

Shell ovately rectangular, very slightly curved, gaping anteriorly, moderately solid, concentrically striate, covered with a dark, olivaceous periostracum; umbones small, not prominent; dorsal margin somewhat arched, ventral margin slightly excavated in the median region, otherwise straight; anterior side slightly produced and somewhat sharply rounded; posterior side very obtusely rostrate, steeply sloping above, then sharply rounded and again sloping inwards below. Cardinal teeth in right valve roughly triangular, jagged, somewhat inwardly projecting, fitting between two teeth in the left valve which are roughened and of which the anterior is rather broad and massive; lateral teeth in both valves elongate and nearly straight; anterior scars somewhat deeply excavated especially above; posterior scars ovate, lightly impressed; interior of shell nacreous, shading from pale flesh colour to bluish iridescent especially towards the posterior margin.

Long. 34, lat. 60, diam. 19 mm.

Hab.—Manipur, Assam, Reg. Nos. $\frac{4710}{1}$ [Type], $\frac{2478}{1}$.

42. **Nodularia (Nodularia) pecten**, sp. n. (Pl. viii, figs. 3, 4.)

Shell elongately ovate, rather thin, covered with a finely laminiferous periostracum of a pale bluish green colour shading to yellowish green towards the margins, finely concentrically striate and posteriorly ribbed, especially on the left valve; umbones rather small, moderately prominent; dorsal margin very slightly arched; ventral margin gently curved; anterior side rounded; posterior side obtusely rostrate below, sloping above; hinge-teeth in both valves weak, anteriorly erect in right valve, sinuous and almost twisted in the left; posterior teeth nearly straight, moderately elongate; adductor scars scarcely perceptible; interior of shell pearly.

Long. 19, lat. 33.5, diam. 12 mm.

Hab.—Pitsanuloke, N. Siam, Reg. No. $\frac{5064}{1}$ [Type].

The author follows Simpson in placing this and the next two species in the Section *Nodularia*, though, owing to the very

different texture of the shells, it is somewhat difficult to understand his reasons for so placing them.

43. **Nodularia (Nodularia) nuttalliana** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 817, = *Unio nuttallianus*, Lea, Proc. Ac. Nat. Sci., Philad., VIII, 1856, p. 103; Obs., VI, 1857, p. 30, pl. xxx, fig. 25; Jl. Ac. Nat. Sci., Philad., 1858, Ser. 2, III, p. 310, pl. xxx, fig. 25; Hanley and Theobald, Conch. Ind., p. 19, pl. xli, figs. 5, 6, = *Margaron (Unio) nuttallianus*, Lea, Syn., 1870, p. 74.

Assam, Reg. No. $\frac{5220}{1}$; Cachar, Reg. No. $\frac{5186}{1}$.

44. **Nodularia (Nodularia) involuta** (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 817, = *Unio involutus*, (Benson), Hanley, Rec. Biv. Shells, 1856, p. 385, pl. xxiii, fig. 19; Hanley and Theobald, Conch. Ind., p. 19, pl. xli, fig. 2.

Sylhet, Reg. No. $\frac{5187}{1}$.

Sec. RADIATULA, Simpson, 1900.

45. **Nodularia (Radiatula) crispisulcata** (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 820, = *Unio crispisulcatus*, Lea, Ann. Mag. Nat. Hist., X, 1862, p. 193; Sowerby, Conch. Icon., XVI, 1866, pl. xlix, fig. 262, = *Margaron (Unio) crispisulcatus*, Lea, Syn., 1870, p. 149.

Irrawaddy near Thayetmyo (Asiatic Society of Bengal), Reg. No. $\frac{2557}{1}$; Pegu (J. Anderson), Reg. No. $\frac{4712}{1}$; Pegu, Reg. No. $\frac{5162}{1}$; Pegu, Reg. No. $\frac{6098}{1}$.

46. **Nodularia (Radiatula) lima**, Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 820, = *Unio radula* (Benson), Hanley, Rec. Biv. Shells, Supp., 1856, p. 382, pl. xxiii, fig. 41; Hanley and Theobald, Conch. Ind., p. 5, pl. x, fig. 3, = *Dysonomia radula*, Rochebrune, Bull. Soc. Phil., VI, 1882, p. 42.

Siliguri, N. Bengal, Reg. Nos. $\frac{2500}{1}$, $\frac{4725}{1}$, $\frac{3862}{1}$; Sikkim, Reg. No. $\frac{2426}{1}$.

46a. Var. **siliguriensis**, Preston, = *Unio siliguriensis*, Preston, Rec. Ind. Mus., Calcutta, II, Pt. 1, p. 47.

Siliguri, Reg. No. $\frac{6099}{1}$. [Type.]

Having now had an opportunity of examining a good series of *N. lima*, a shell which had previously been inaccessible to me, I have no hesitation in reducing *U. siliguriensis* to a variety of that species.

Gen. **Physunio**, Simpson, 1900.

Sec. **PHYSUNIO**, Simpson, 1900.

47. **Physunio (Physunio) gravidus** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 830, = *Unio gravidus*, Lea, Proc. Ac. Nat. Sci., Philad., VIII, 1856, p. 93; Obs., VI, 1857, p. 12, pl. xxiv, fig. 5; Jl. Ac. Nat. Sci., Philad., III, 1858, p. 292, pl. xxiv, fig. 5, = *Margaron (Unio) gravidus*, Lea, Syn., 1870, p. 28, = *Lampsilis gravidus*, Rochebrune, Bull. Soc. Phil., VI,

1882, p. 43, = *Unio abnormis*, Morelet, Rev. et Mag., XIV, 1862, p. 480, = *Unio superbus*, Sowerby, Conch. Icon., XVI, pl. lix, fig. 295.

Cambodia, Reg. No. $\frac{1993}{1}$; Siam, Reg. No. $\frac{2577}{1}$; Pitsanuloke, N. Siam (H. W. Biggie), Reg. No. $\frac{1410}{1}$.

48. **Physunio (Physunio) micropterus** (Morelet), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 831, = *Unio micropterus*, Morelet, J. de Conch., XIV, 1866, p. 63; Ser. Conch., IV, 1875, p. 349, pl. xv, fig. 7.

Cambodia, Reg. No. $\frac{1997}{1}$

Gen. *Dalliella*, Simpson, 1900.

49. **Dalliella purpurea** (Valenciennes), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 832, = *Anodonta purpurea*, Valenciennes, Rec. Obs. Zool., II, 1853, p. 236, pl. xlviiii bis, figs. 3, 3a, 3b, = *Margarita (Anodonta) purpurea*, Lea, Syn., 1836, p. 51; 1838, p. 30, = *Anodon purpurea*, Catlow and Reeve, Conch. Nom., 1845, p. 67, = *Margaron (Anodonta) purpurea*, Lea, Syn., 1852, p. 50; 1870, p. 79, = *Anodonta burroughiana*, Lea, Tr. Am. Phil. Soc., V, 1834, p. 105, pl. xvi, fig. 49; Obs., I, 1834, p. 217, pl. xvi, fig. 49, = *Margaron (Anodonta) burroughiana*, Lea, Syn., 1870, p. 81, = *Anodon burroughianus*, Sowerby, Conch. Icon., XVII, pl. xxvii, fig. 103, = *Margarita (Unio) bengalensis*, Lea, Syn., 1836, p. 26; 1838, p. 20, = *Unio bengalensis* Lea, Tr. Am. Phil. Soc., VI, 1838, p. 3, pl. ii, fig. 3; Obs., II, 1838, p. 3, pl. ii, fig. 3, = *Margaron (Unio) bengalensis* Lea, Syn., 1852, p. 30; 1870, p. 47, = *Anodon bengalensis*, Sowerby, Conch. Icon., XVII, pl. xiv, fig. 49, = *Anodonta bengalensis*, Clessin, Conch. Cab. Ano., 1876, p. 173, pl. lvii, fig. 1, = *Unio verecundus* Gould, Proc. Bost. Soc. Nat. Hist., III, 1850, p. 295; U. S. Expl. Exp., XII, 1852, p. 431, figs. 541, 541a, 541b, 541c, = *Unio mauritianus*, Lea, Proc. Ac. Nat. Sci. Philad., III, 1859, p. 152; Jl. Ac. Nat. Sci., Philad., IV, 1860, p. 257, pl. xl, fig. 138, = *Margaron (Unio) mauritianus*, Lea, Syn., 1870, p. 42, = ?*Anodonta heldii*, Küster, Conch. Cab. Ano., 1873, p. 64, pl. xix, fig. 1 = *Anodonta chinensis*, Küster?

Manila, Reg. Nos. $\frac{5027}{1}$, $\frac{5028}{1}$, $\frac{5029}{1}$; Luzon, Reg. No. $\frac{5061}{1}$.

50. **Dalliella subcrassa** (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 833, = *Anodonta subcrassa*, Lea, Proc. Zool. Soc., London, 1850, p. 198; Ann. Mag. Nat. Hist., VIII, 1851, p. 495; Jl. Ac. Nat. Sci., Philad., IV, 1859, p. 236, pl. xxxiii, fig. 115, = *Margaron (Anodonta) subcrassa*, Lea, Syn., 1852, p. 51; 1870, p. 81, = *Anodon subcrassa*, Sowerby, Conch. Icon., XVII, 1867, pl. xiii, fig. 42.

Philippines, Reg. No. $\frac{615}{1}$.

51. **Dalliella insularis** (Drouet), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 834, = *Pseudodon insularis*, Drouet, Rev. Biol. Fr., VI, 1894, p. 217, fig. 2.

Sarawak, Reg. No. $\frac{1977}{1}$

Gen. **Pseudodon**, Gould, 1844.

Sec. TRIGONODON, Conrad, 1865.

52. **Pseudodon (Trigonodon) crebristriatus** (Anthony), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 835, = *Monocondylaea crebristriata*, Anthony, Am. Jl. Conch., I, 1865, p. 205, pl. xviii, fig. 1, = *Trigonodon crebristriata*, Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Margaron (Monocondylaea) crebristriata*, Lea, Syn., 1870, p. 72, = *Unio crebristriatus*, Sowerby Conch. Icon., XVI, 1868, pl. xcv, fig. 517, = *Pseudodon crebristriatum*, Hanley and Theobald, Conch. Ind., p. 5, pl. ix, fig. 3, = *Unio vondembuschi*, Sowerby Conch. Icon., XVI, pl. xcv, fig. 518.

Pegu, Reg. Nos. $\frac{1699}{1}$ and $\frac{5031}{1}$.

52a. Var. **curvata**, var. n.

Shell having the ventral margin more curved, and generally less ovate in shape than in the typical form.

Hab.—Pegu, Reg. Nos. $\frac{1990}{1}$ [Type], $\frac{2135}{1}$.

52b. Var. **peguensis** (Anthony), = *Monocondylaea peguensis*, Anthony, Am. Jl. Conch., I, 1865, p. 205, pl. xviii, fig. 2, = *Margaron (Monocondylaea) peguensis*, Lea, Syn., 1870, p. 73, = *Pseudodon crebristriatum* var. *peguensis*, Hanley and Theobald, Conch. Ind., 1876, p. 5, pl. ix, fig. 5.

Zayleyman, Reg. No. $\frac{2573}{1}$.

Sec. PSEUDODON, Gould, 1884.

53. **Pseudodon (Pseudodon) vondembuschiana** (Lea), Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Margaritana vondembuschiana*, Lea, Proc. Am. Phil. Soc., I, 1840, p. 288; Tr. Am. Phil. Soc., VIII, 1842, pl. xviii, fig. 39; Obs., III, 1842, p. 60, pl. xviii, fig. 39, = *Margaron (Monocondylaea) vondembuschiana*, Lea, Syn., 1852, p. 45; 1870, p. 73, = *Monocondylaea vondembuschiana*, H. and A. Adams, Gen. Rec. Moll., II, 1858, p. 501, = *Monodontina buschiana*, Conrad, Proc. Ac. Nat. Sci., Philad., VI, 1853, pp. 269, 449, = *Unio vonbuschea*, Sowerby, Conch. Icon., XVI, 1866, pl. li, fig. 269, = *Alasmodonta crispata*, Mousson, L. and Süss. W. Moll. Java, 1849, p. 97, pl. xviii, figs. 1, 2, = *Margaritana crispata*, Paetel, Conch. Sam., III, 1890, p. 173, = *Monocondylaea planulata*, Lea, Proc. Ac. Sci., Philad., XI, 1859, p. 187; Jl. Ac. Nat. Sci., Philad., IV, 1859, p. 262, pl. xlii, fig. 142; Obs., VII, 1860, p. 80, pl. xlii, fig. 142, = *Pseudodon planulata*, Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Microcondylaea planulata*, Paetel, Conch. Sam., III, 1890, p. 175, = *Margaron (Monocondylaea) planulata*, Lea, Syn., 1870, p. 73, = *Margaritana fragilis*, Küster, Conch. Cab. Unio, 1862, p. 295, pl. xcvi, fig. 2, = *Microcondylaea fragilis*, Paetel, Conch. Sam., III, 1890, p. 175, = *Monocondylaea rhombica*, Küster, Conch. Cab. Unio, 1862, p. 304, pl. c, fig. 7.

Sarawak. Reg. Nos., $\frac{5019}{1}$, $\frac{5165}{1}$.

54. **Pseudodon (Pseudodon) inoscularis** (Gould), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 837, = *Anodon inoscularis*, Gould, Proc. Bost. Soc. Nat. Hist., I, 1844, p. 160; Hanley and Theobald, Conch. Ind., p. 5, pl. ix, fig. 2, = *Margaron (Monocondylaea) inoscularis*, Lea, Syn., 1870, p. 73, = *Margaritana inoscularis*, Paetel, Conch. Sam., 1890, III, p. 173.

Tenasserim River, Reg. No. $\frac{4957}{1}$; Tenasserim, Reg. No. $\frac{4696}{1}$.

55. **Pseudodon (Pseudodon) cumingii** (Lea), Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Anodonta cumingii*, Lea, Proc. Zool. Soc., London, 1850, p. 199; Ann. Mag. Nat. Hist., VIII, 1851, p. 495; Musgrave in Hanley's Phot. Conch., 1863, pl. i, fig. 6, = *Margaron (Monocondylaea) cumingii*, Lea, Syn., 1852, p. 50, 1870, p. 73, = *Monocondylaea cumingii*, Lea, Jl. Ac. Nat. Sci., Philad., IV, 1860, p. 235, pl. xxxiii, fig. 114; Obs., VII, 1860, p. 53, pl. xxxiii, fig. 114, = *Anodon cumingii*, Reeve, Conch. Icon., XVII, 1870, pl. xxxi, fig. 122, = *Microcondylaea cumingii*, Clessin, Conch. Cab. An., 1876, p. 239; pl. lxxxiii, figs. 3, 4, = *Pseudodus cumingii*, de Morgan, Bull. Soc. Zool. de Fr., X, 1885, p. 422

Cambodia, Reg. Nos. $\frac{4999}{1}$ and $\frac{4951}{1}$; Philippines (W. Theobald), Reg. No. $\frac{614}{1}$.

56. **Pseudodon (Pseudodon) tumidus** (Morelet), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 837, = *Monocondylus tumidus*, Morelet, Jl. de Conch., XIV, 1866, p. 62; Mabilie, Rev. Zool., XXIII, 1872, p. 51, pl. v, figs. 6, 7.

Upper Cambodia, Reg. No. $\frac{4995}{1}$.

57. **Pseudodon (Pseudodon) salwenianus** (Gould), Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Anodon salwenianus*, Gould, Proc. Bost. Soc. Nat. Hist., I, 1844, p. 160, = *Anodonta salweniana*, Gould, Otia Conch., 1862, p. 193, = *Monocondylaea salweniana*, Paetel, Conch. Sam., III, 1890, p. 174, = *Unio salweniana*, Sowerby, Conch. Icon., XVI, 1868, pl. xciv, fig. 513, = *Margaron (Monocondylaea) salweniana*, Lea, Syn., 1870, p. 72, = *Pseudodon salwenianum*, Hanley and Theobald, Conch. Ind., p. 5, pl. ix, fig. 4.

Tenasserim River, Reg. Nos. $\frac{4677}{1}$, $\frac{4983}{1}$ and $\frac{4697}{1}$; Burma, Reg. Nos. $\frac{5049}{1}$ and $\frac{5040}{1}$.

58. **Pseudodon (Pseudodon) cambodjensis** (Petit), Conrad, Am. Jl. Conch., I, 1865, p. 233, = *Monocondylaea cambodjensis*, Petit, Jl. de Conch., VI, 1865, p. 122, = *Margaron (Monocondylaea) cambodjensis*, Lea, Syn., 1870, p. 72.

Cambodia, Battambang, Reg. No. $\frac{1996}{1}$; Cochin China, Reg. No. $\frac{5050}{1}$.

59. **Pseudodon (Pseudodon) ava** (Theobald), Simpson, Syn., Naiades, Proc. U.S. Nat. Mus., XXII, p. 839, = *Monocondylaea ava* Theobald, Jl. As. Soc. Beng., XLII, 1873, pt. II, p. 209, pl. xvii, fig. 15.

Mandalay (J. Anderson), Reg. No. $\frac{4987}{1}$.

Gen. *Parreysia*, Conrad, 1853.Subgen. *Parreysia*, Conrad, 1853.

60. *Parreysia corrugata* (Müller), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 841, = *Mya corrugata*, Müller, Verm. Terr. et Fluv., 1774, Pt. 2, p. 214; Besch. Ges. Nat. Ber., IV, 1779, p. 56, pl. iiib, figs. 7, 8, = *Unio corrugata*, Lamarck, An. sans Vert., VI, 1819, p. 79; Deshayes, Enc. Méth., II, 1827, p. 584, pl. ccxlviii, fig. 8, = *Unio (Potamida) corrugata*, Swainson, Tr. on Mal., 1840, p. 268, fig. 51; p. 281, fig. 57, = *Unio rugosus*, Küster, Conch. Cab. Unio., 1862, p. 290, pl. xcvi, fig. 5, = *Unio corrugata*, Retzius, Diss. Hist. Nat., 1778, p. 18; Spengler, Skriv. Selsk. Nat., III, 1793, p. 68; Hanley Test. Moll., 1842, p. 197; Biv. Shells, 1843, p. 197; Hanley and Theobald, Conch. Ind., 1876, p. 21, pl. xlv, figs. 2—5, etc., = *Margarita (Unio) corrugatus*, Lea, Syn., 1836, p. 29; 1838, p. 21, = *Margaron (Unio) corrugatus*, Lea, Syn., 1852, p. 20; 1870, p. 30, = *Mya spuria*, Gmelin, Syst. Nat., 13th Ed., 1788, p. 3222, = *Mya gaditana*, Schreibers, Versuch., 1793, = *Unio multidentatus*, Philippi, Conch., III, 1847, p. 46, pl. iii, fig. 4, = *Margaron (Unio) multidentatus*, Lea, Syn., 1870, p. 50, = *Unio fulmineus*, Philippi, Conch., III, 1847, p. 46, pl. iii, figs. 5, 6, = *Unio lutens*, Lea, Proc. Ac. Nat. Sci. Philad., VIII, 1856, p. 93, = *Unio luteus*, Lea, Jl. Ac. Nat. Sci. Philad., III, 1857, p. 291, pl. xxiv, fig. 4, = *Margaron (Unio) luteus*, Lea Syn., 1870, p. 46, = ? *Unio semirugatus*, Chemnitz, Ill. Conch., 1858 pl. xii, figs. 2, 2a, = *Unio merodabensis*, Küster, Conch. Cab. Unio, 1861, p. 233, pl. lxxviii, fig. 4, = *Unio tennenti*, Hanley and Theobald, Conch. Ind., p. 22, pl. xlv, figs. 7—9.

Garchiroti Tahsil, Chanda, C. P., Reg. No. $\frac{5113}{1}$; River Dukkaree, near Umballa, Reg. No. $\frac{5115}{1}$; Ceylon (Asiatic Society of Bengal), Reg. No. $\frac{2509}{1}$; Séwan, close to the Indus, Reg. No. 2514; Gudur, Madras Presidency (G. H. Tipper), Reg. No. 5113, and a stream two miles north of Gudur (G. H. Tipper), Reg. Nos. $\frac{5112}{1}$ and $\frac{5114}{1}$; Madras, Reg. No. $\frac{2493}{1}$; Manbhoom, Reg. No. $\frac{2506}{1}$; Patna, Reg. Nos. $\frac{2493}{1}$ and $\frac{2507}{1}$; Berhampore, Murshidabad Dist., (S. W. Kemp), Reg. No. $\frac{5052}{1}$; Brahmapuri Tahsil, Chanda, C. P., Reg. No. $\frac{5144}{1}$; Bangalore, Mysore State, Reg. No. $\frac{2474}{1}$; Rhenchooganj, Sylhet, Reg. No. $\frac{3989}{1}$; Loc. ? (Asiatic Society of Bengal), Reg. No. $\frac{2550}{1}$; Singpal Garki, Nepal (R. Hodgart), $\frac{6096}{1}$ Arrah, Reg. No. $\frac{4861}{1}$; Orissa, Reg. No. $\frac{2518}{1}$; Muzafferpore (I. H. Burkill), Reg. No. $\frac{5141}{1}$; Puri, Orissa, Reg. No. $\frac{2515}{1}$; Putna, Mirzapur Dist., U.P. (R. Hodgart), Reg. No. $\frac{6100}{1}$.

60a. Var. *fragilis*, Hanley and Theobald, Conch. Ind., p. 21, pl. xlv, fig. 4.

Puri, Orissa, Reg. No. $\frac{2515}{1}$.

60b. Var. *laevirostris* (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 842, = *Unio laevirostris*, Benson, Ann. Mag. Nat. Hist., 1862, p. 192; Jl. As. Soc. Beng., 1862,

XXXV, p. 144,=*Unio corrugatus* var. *laevirostris*, Hanley and Theobald, Conch. Ind., 1876, p. 21, pl. xlv, figs. 5, 6.

Chittagong Hills, Reg. Nos. $\frac{2544}{1}$ and $\frac{2464}{1}$; Sadya, N. E. Assam, Reg. No. $\frac{2489}{1}$; Loc. ? (Asiatic Society of Bengal), Reg. No. $\frac{2500}{1}$; Arrah, Reg. No. $\frac{6101}{1}$.

60c. Var. *nagpoorensis* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 842; Hanley and Theobald, Conch. Ind., p. 21, pl. xlv, fig. 3,=*Unio nagpoorensis*, Lea, Proc. Ac. Nat. Sci., Philad., 1859 (1860), p. 331; Jl. Ac. Nat. Sci., Philad., IV, 1860, p. 270, pl. xlv, fig. 150; Obs., VII, 1860, p. 88, pl. xlv, fig. 150,=*Margaron (Unio) nagpoorensis*, Lea, Syn., 1870, p. 38.

Poona, Reg. No. $\frac{5015}{1}$; a stream two miles north of Gudur, Madras Presidency (G. H. Tipper), Reg. No. $\frac{5111}{1}$; Godavery River, Reg. No. $\frac{2468}{1}$.

61. *Parreysia wynegungaensis* (Lea), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 842,=*Unio wynegungaensis*, Lea, Proc. Ac. Nat. Sci., Philad., 1859 (1860), p. 331; Obs. Unio., VII, p. 89, pl. xlv, fig. 151; Sowerby, Conch. Icon., Unio., pl. xvi, fig. 339,=*Unio wynegungaensis*, Hanley and Theobald, Cat. L. and F. W. Shells Brit. Ind.,=*Margaron (Unio) wynegungaensis*, Lea, Syn., 1870, p. 50.

Ortalai River, Reg. No. $\frac{2521}{1}$; Damuda (W. T. Blanford), Reg. No. $\frac{2465}{1}$; Surat, Reg. No. $\frac{2477}{1}$; Sambalpur, Reg. No. $\frac{2482}{1}$; Godavery River (W. T. Blanford), Reg. Nos. $\frac{4711}{1}$, $\frac{2467}{1}$; from the little 'nuddy' at Barod, about 130 miles S.W. of Sepree, Reg. No. $\frac{5103}{1}$; Assam (*ex coll.* Robinson), Reg. No. $\frac{2551}{1}$.

62. *Parreysia favidens* (Benson), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 842,=*Mya spuria*, Wood, Ind. Test., 1825, p. 12, pl. ii, fig. 35a,=*Unio favidens*, Benson, Ann. Mag. Nat. Hist., X, 1862, p. 188; Hanley and Theobald, Conch. Ind., 1876, p. 6, pl. xi, fig. 1,=*Margaron (Unio) favidens*, Lea, Syn., 1870, p. 38,=*Unio favidens*, Paetel, Conch. Sam., III, 1890, p. 152,=*Unio tirostris*, Musgrave in Hanley's Phot. Conch., 1863, pl. ii, fig. 9,=*Unio tripartitus*, Lea, Proc. Ac. Nat. Sci., Philad., VII, 1863, p. 190; Jl. Ac. Nat. Sci., Philad., VI, p. 57, pl. xix, fig. 55,=*Margaron (Unio) tripartitus*, Lea, Syn., 1870, p. 35,=*Unio favidens* var. *marcens*, Benson, Ann. Mag. Nat. Hist., X, 1862, p. 188,=*Unio marcens*, Hanley and Theobald, Conch. Ind., 1876, p. 19, pl. xlii, figs. 4—6.

Moradabad (Asiatic Society of Bengal), Reg. No. $\frac{2476}{1}$; River Indus, Reg. No. $\frac{2449}{1}$; Barrack River, Silchar Reg. Nos. $\frac{4867}{1}$, $\frac{4872}{1}$, $\frac{4873}{1}$, $\frac{2487}{1}$; Rajputana, Reg. No. $\frac{2494}{1}$; Berhampur, Reg. No. $\frac{2466}{1}$; Dacca, Reg. Nos. $\frac{1497}{1}$ and $\frac{2501}{1}$; Bengal, Reg. No. $\frac{2537}{1}$; Loc. ? (Asiatic Society of Bengal), Reg. No. $\frac{2520}{1}$; Cachar, Reg. No. $\frac{2490}{1}$; E. Cachar, Reg. Nos. $\frac{2547}{1}$, $\frac{2502}{1}$, $\frac{2491}{1}$; Barrack River, Sylhet, Reg. No. $\frac{2487}{1}$; Tezpur, Reg. Nos. $\frac{2503}{1}$ and $\frac{26}{1}$; "West of Ranigunge," Reg. No. $\frac{2377}{1}$; Assam, Reg. No. $\frac{2485}{1}$; Poona, Reg. No. $\frac{5072}{1}$; Karnul, Madras, Reg. No. $\frac{2536}{1}$; Calcutta (J. Wood-Mason) Reg.

No. $\frac{2495}{1}$, also Reg. No. $\frac{4708}{1}$; Seven Tanks, Calcutta, Reg. No. $\frac{2523}{1}$; Arrah, Reg. Nos. $\frac{2517}{1}$ and $\frac{4861}{1}$; Rajmahal, Reg. No. $\frac{2470}{1}$; Hazrapur, Reg. No. $\frac{2498}{1}$; Ranigunge, Reg. No. $\frac{4894}{1}$; Sunderbunds, Reg. No. $\frac{2483}{1}$; Phenchooganj, Central Sylhet (a variety), Reg. No. $\frac{4869}{1}$.

62a. Var. **pinax** (Benson), Hanley and Theobald, Conch. Ind., p. 6, pl. x, fig. 2, = *Unio pinax*, Benson, Ann. Mag. Nat. Hist., 1862, p. 192; Jl. As. Soc. Beng., XXXV, 1866, p. 144.

Loc? (Asiatic Society of Bengal), Reg. No. $\frac{2447}{1}$; Arrah, Reg. No. $\frac{6102}{1}$.

62b. Var. **plagiosoma** (Benson), Hanley and Theobald, Conch. Ind., p. 6, pl. xi, fig. 3, = *Unio plagiosoma*, Benson, Ann. Mag. Nat. Hist., X, p. 191; Jl. As. Soc. Beng., XXXV, 1866, p. 144.

Patna, Reg. No. $\frac{5107}{1}$; Langlai, Assam, Reg. Nos. $\frac{2578}{1}$ and $\frac{2480}{1}$; Alipur, Calcutta (J Anderson), Reg. No. $\frac{2524}{1}$; Birbhum (J Wood-Mason), Reg. No. $\frac{2484}{1}$.

62c. Var. **chrysis** (Benson), Ann. Mag. Nat. Hist., Ser. 3, X, p. 189; Hanley and Theobald, Conch. Ind., pl. xli, fig. 3.

Patna, Reg. No. $\frac{2459}{1}$.

62d. Var. **deltae** (Benson), Ann. Mag. Nat. Hist., Ser. 3, X, p. 189; Hanley and Theobald, Conch. Ind., pl. xlii, fig. 2.

Hazrapur, Reg. Nos. $\frac{2505}{1}$ and $\frac{5108}{1}$; Calcutta, Reg. No. $\frac{2461}{1}$.

62e. Var. **irridula** (Benson), Ann. Mag. Nat. Hist., Ser. 3, X, p. 189.

Bengal, Reg. No. $\frac{2451}{1}$; Darnuda, Reg. No. $\frac{6103}{1}$; Manbhoom, Reg. No. $\frac{2451}{1}$; Gunduk (Asiatic Society of Bengal), Reg. No. $\frac{2519}{1}$; Ranigunge, Reg. No. $\frac{2452}{1}$; Patna, Reg. No. $\frac{2453}{1}$.

62f. Var. **assamensis** (Nevill, MS.), var. n.

Shell more convex than the typical form, the dorsal margin is rather less posteriorly angled, the anterior side more rounded and the posterior slightly more nasute.

Hab.—Digong, Reg. No. $\frac{2479}{1}$ [Type]; Assam, Reg. Nos. $\frac{2504}{1}$, $\frac{2511}{1}$ and $\frac{2488}{1}$; Arrah (Asiatic Society of Bengal), Reg. No. $\frac{2546}{1}$; Sylhet, Reg. No. $\frac{2456}{1}$.

63. **Parreysia smaragdites** (Benson), = *Unio smaragdites*, Benson, Ann. Mag. Nat. Hist., 1862, X, p. 190.

Bhamo, Upper Burma (J Anderson), Reg. Nos. $\frac{2457}{1}$, $\frac{4708}{1}$; Zayleyman Upper Burma (J Anderson), Reg. No. $\frac{2448}{1}$; Zayleyman, Reg. No. $\frac{5099}{1}$; Loc? (J Anderson) Reg. No. $\frac{5100}{1}$.

64. **Parreysia bhamoensis** (Theobald), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 843, = *Unio bhamoensis*, Theobald, Jl. As. Soc. Beng., XLII, 1873, Pt. 2, p. 207, pl. xvii, fig. 1, = *Unio mandalayensis*, Theobald, Jl. As. Soc. Beng., XLII, Pt. 2, p. 208, pl. xvii, fig. 2.

Mandalay, Upper Burma, Reg. Nos. $\frac{5065}{1}$ and (J Anderson) $\frac{2571}{1}$; Sheinmagah, Upper Burma, Reg. No. $\frac{2560}{1}$; Irrawaddy

River at Sagaing (J Coggin Brown), Reg. Nos. $\frac{4737}{1}$ — $\frac{38}{1}$; Zayleyman, Upper Burma (J Anderson), Reg. No. $\frac{2570}{1}$.

65. *Parreysia pernodulosa*, sp. n.

Shell small, ovate, dark brown; both valves sculptured anteriorly with coarse, corrugate ridges which become more nodulous and irregular in the median and posterior regions; umbones rather large; dorsal margin rapidly sloping anteriorly, slightly sloping posteriorly; ventral margin somewhat rounded; anterior side rather contracted, sharply rounded; posterior side broad, very gently rounded; cardinal teeth very anteriorly situate, in right valve squarish, bearing two elongate grooves; in left valve large, jagged, split into three portions, between each of which occur two deep notches, the middle portion, or that between the two notches, being by far the smallest: at the base of the anterior portion is situated a smaller, jagged tooth which is obliquely grooved in the centre; lateral teeth in both valves posteriorly, elongately arched, grooved down the whole length; anterior scars very deep; posterior scars elongate, but not well marked; interior of shell pale bluish, nacreous.

Long. 15.5; lat. 20.5 mm.

Hab.—Zayleyman, Upper Burma (J Anderson), Reg. No. $\frac{6104}{1}$ [Type].

66. *Parreysia feddeni* (Theobald), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 843, = *Unio feddeni*, Theobald, Jl. As. Soc. Beng., XLII, Pt. 2, p. 208, pl. xvii, fig. 3; Hanley and Theobald, Cat. L. and F. W. Shells, Brit. Ind., p. 48.

Pem Ganga, Reg. No. $\frac{2516}{1}$ (ex coll. W T. Blanford).

67. *Parreysia daccaensis*, sp. n.

Shell differing from *P. feddeni*, Theobald, in its much larger size, more ponderous form and more elongately ovate shape, it is much darker in colour, being of a dark blackish brown instead of the greenish yellow shade of that species, the shell is much more coarsely, concentrically striate and is also considerably malleated, while *P. feddeni* is almost smooth in texture; the umbones in the present species are, though larger, far less prominent, but the system of hinge teeth is the same.

Long. 47; lat. 76.5, diam. 29 mm.

Hab.—Dacca, Reg. No. $\frac{6105}{1}$ [Type].

68. *Parreysia tavoyensis* (Gould), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 843, = *Unio tavoyensis*, Gould, Proc. Bost. Soc. Nat. Hist., 1843, p. 140; Küster, Conch. Cab. Unio., 1856, p. 166, pl. xviii, fig. 2, etc., = *Margaron (Unio) tavoyensis*, Lea, Syn., 1870, p. 31, = *Unio savoyensis* Paetel, Conch. Sam., III, 1890, p. 166, = *Unio parma*, Benson, Sowerby, Conch. Icon., XVI, 1868, pl. xcv, fig. 514; Hanley and Theobald, Conch. Ind., p. 61, pl. cliv, fig. 1.

Tavoy, Reg. Nos. $\frac{2566}{1}$, $\frac{4703}{1}$, and $\frac{2543}{1}$; Pegu, Reg. Nos. $\frac{2441}{1}$, $\frac{2567}{1}$, and $\frac{2522}{1}$; Arakan, Reg. No. $\frac{2568}{1}$; Tenasserim, Burma (W T. Blanford), Reg. No. $\frac{2534}{1}$; Mandalay, Reg. No. $\frac{2564}{1}$.

68a. Var. *triembolus* (Benson), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 844, = *Unio triembolus*, Benson, Jl. As. Soc. Beng., XXXV 1855, p. 144; Ann. Mag. Nat. Hist., X, 1862, p. 190; Hanley and Theobald, Conch. Ind., p. 43, pl. cvii, fig. 2, = *Unio houngdaranicus*, Tapparone-Canefri, Ann. Mus. Civ. Genova, VII, 1889, p. 341.

Cachar, Reg. No. $\frac{2455}{1}$; Barrack River, Silchar, Reg. No. $\frac{4866}{1}$; Loc? (Asiatic Society of Bengal), Reg. No. $\frac{2458}{1}$; Calcutta, Reg. No. $\frac{2181}{1}$.

69. *Parreysia rajahensis* (Lea), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 844, = *Unio rajahensis*, Lea, Proc. Am. Phil. Soc., II, 1841, p. 30; Tr. Am. Phil. Soc., VIII, 1842, p. 289, pl. xxiii, fig. 53; Obs., III, 1842, p. 77, pl. xxiii, fig. 53, = *Margaron (Unio) rajahensis*, Lea, Syn., 1852, p. 25; 1870, p. 38, = *Unio indicus*, Sowerby, Conch. Icon., XVI, 1866, pl. xl, fig. 222; Hanley and Theobald, Conch. Ind., p. 43, pl. cvii, fig. 1, = *Margaron (Unio) indicus*, Lea, Syn., 1870, p. 31.

Nerbudda River, Reg. No. $\frac{2173}{1}$; Poona, Reg. No. $\frac{1512}{1}$; Nerbudda R. (W. Theobald), Reg. No. $\frac{4712}{1}$; Nerbudda R., Reg. No. $\frac{2513}{1}$, (W. T. Blanford); "from the soil of the Ran Kach," Reg. No. $\frac{5952}{1}$; from 130 miles S. W. of Sepree, Reg. No. $\frac{5153}{1}$; Sahibgunge, Reg. No. $\frac{2471}{1}$.

70. *Parreysia corbis* (Hanley), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 845, = *Unio corbis*, Benson in Hanley's Rec. Biv. Shells, 1856, pl. xxiii, fig. 43; Hanley and Theobald, Conch. Ind., p. 22, pl. xlv, fig. 10, = *Margaron (Unio) corbis*, Lea, Syn., 1870, p. 50.

Assam, Reg. No. $\frac{5223}{1}$.

71. *Parreysia burmanus* (Blanford), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 845, = *Unio burmanus*, Blanford, Proc. Zool. Soc., London, 1869, p. 450, = *Unio birmanus*, Hanley and Theobald, Conch. Ind., p. 19, pl. xlii, fig. 11.

Bhamo, Reg. Nos. $\frac{5232}{1}$ [Type], $\frac{2518}{1}$, $\frac{1565}{1}$, $\frac{2510}{1}$ (J. Anderson), $\frac{4709}{1}$.

72. *Parreysia sikkimensis* (Lea), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 845, = *Unio sikkimensis*, Lea, Proc. Ac. Nat. Sci. Philad., III, 1859, p. 151; Jl. Acad. Nat. Sci., IV, 1859, p. 251; Obs., VII, 1860, p. 69, pl. xxxix, fig. 131, = *Margaron (Unio) sikkimensis*, Lea, Syn., 1870, p. 64.

Sikkim, Reg. No. $\frac{2427}{1}$; Sibsagar, Assam, Reg. Nos. $\frac{2303}{1}$ and $\frac{4713}{1}$ (S. E. Peal.); Siliguri, Reg. No. $\frac{5102}{1}$; Namtsik, Dihing, Reg. No. $\frac{5070}{1}$; Cachar, Reg. No. $\frac{2492}{1}$.

73. *Parreysia gowhattensis* (Theobald), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 845, = *Unio gowhattensis*, Theobald, Jl. As. Soc. Beng., XLII, 1873, Pt. 2, p. 208, pl. xvii, fig. 4.

Gowhatty (=Gauhati), Assam (Museum Collector), Reg. No. $\frac{4716}{1}$; Gowhatty, Reg. Nos. $\frac{2475}{1}$ and $\frac{2358}{1}$.

74. *Parreysia annandalei*, sp. n.

Shell oval, convex, moderately solid, coarsely concentrically ribbed, covered with a thin, smooth, brownish-olivaceous periostracum; umbones rather small, not prominent; dorsal margin arched; ventral margin considerably rounded; anterior side slightly produced and rather sharply rounded; posterior side very bluntly sub-rostrate; cardinal teeth two in each valve, somewhat anteriorly situate, rather coarse, corrugated; lateral teeth strong, curved; anterior scars rather small, very deeply excavated; posterior scars also small, ovate, deeply impressed; interior of shell whitish, iridescent.

Long. 29, lat. 41, diam. 20 mm.

Hab.—Gowhatty, Reg. No. $\frac{2490}{1}$ [Type].

75. *Parreysia perconvexa*, sp. n.

Shell ovate, slightly curved, very convex, solid, but much eroded, where intact covered with a dark blackish brown periostracum; umbones moderately large; dorsal margin sloping in an anterior direction; ventral margin slightly curved posteriorly; anterior side gently rounded; posterior side slightly and very bluntly produced, rounded; cardinal teeth very anteriorly situate with upper surface multi-ridged and supported in each valve by an enormous column-like callus thickening of the shell; lateral teeth coarse, rather short, curved; anterior muscular scars of great depth; posterior scars subcircular, well impressed; interior of shell very pale greenish white.

Long. 37, lat. 55, diam. 33 mm.

Hab.—Nangyong Lake, Reg. No. $\frac{5069}{1}$ [Type].

Gen. *Lamellidens*, Simpson, 1900.

Subgen. *Lamellidens*, Simpson, 1900.

76. *Lamellidens marginalis* (Lamarck), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 854, = *Unio marginalis*, Lamarck, An. sans Vert., VI, 1819, p. 79; Deshayes, Enc. Méth., II, 1827, p. 151, pl. ccxlvii, fig. 1, = *Die breite Mahler-Muschel aus Grönland*, Schröter, Flusse., 1779, p. 181, pl. ix, fig. 1, = ? *Unio groenlandicus*, Mörch, Am. Jl. Conch., IV, 1868, p. 38, = ? *Unio testudinarius*, Spengler, Skriv. Selsk. Nat., III, 1793, p. 65, = ? *Unio truncatus*, Spengler, Skriv. Selsk. Nat., III, 1793, p. 65 = *Margarita (Unio) marginalis*, Lea, Syn., 1836, p. 37; 1838, p. 24, = *Margaron (Unio) marginalis*, Lea, Syn., 1852, p. 38; 1870, p. 60, = *Unio anodontina*, Lamarck, An. sans Vert., VI, 1819, p. 80, = *Unio anodontinus*, Küster, Conch. Cab. Unio., 1861, p. 240, pl. lxxx, fig. 15, = *Symphynota bilineata*, Lea, Tr. Am. Phil. Soc., IV, 1831, p. 98, pl. xi, fig. 19; Obs. I, 1834, p. 108, pl. xi, fig. 19, = *Margarita (Unio) bilineatus*, Lea, Syn., 1836, p. 38; 1838, p. 25, = *Unio bilineatus*, Hanley, Test. Moll., 1842, p. 207; Biv. Shells, 1843, p. 207, pl. xxi, fig. 30, = *Margaron (Unio) bilineatus*, Lea, Syn., 1852, p. 38; 1870, p. 61, = ? *Unio evanescens*, Mousson, Moll. Java., 1849, p. 91, pl. xvii, fig. 2.

Singbhoom, Reg. No. $\frac{4880}{1}$; Chittagong, Reg. No. $\frac{4877}{1}$; Arrah Reg. No. $\frac{4898}{1}$; Burma, Reg. No. $\frac{2563}{1}$; Hazrapur, Reg. No. $\frac{4879}{1}$; Rangoon, Reg. No. $\frac{5106}{1}$; Bhamo, Upper Burma (J. Anderson), Reg. No. $\frac{2535}{1}$; Tank near Bangalore, Reg. No. $\frac{5012}{1}$; Tezpur, Reg. No. $\frac{2539}{1}$; Dacca, Reg. No. $\frac{4891}{1}$; Toungoo, Burma, Reg. No. $\frac{2137}{1}$; Bhagalpur (Capt. Sherwill), Reg. No. $\frac{4876}{1}$; "a stream two miles north of Guddur, Madras Presidency" (G. H. Tipper), Reg. Nos. $\frac{5110}{1}$, $\frac{5115}{1}$; "from the little 'nuddy' at Barod, S. W. of Sepree, about 130 miles," Reg. Nos. $\frac{5039}{1}$, $\frac{5021}{1}$; "from a jheel near Rohri, Sind," Reg. No. $\frac{4988}{1}$; Irrigation Channels, Seistan, Reg. Nos. $\frac{3241}{1}$ and $\frac{4814}{1}$; Poona, Reg. Nos. $\frac{5098}{1}$ and $\frac{5073}{1}$; Karnul District, Madras, Reg. Nos. $\frac{5047}{1}$ and $\frac{5038}{1}$; Calcutta, Reg. Nos. $\frac{4887}{1}$, $\frac{4886}{1}$ (distorted specimens), $\frac{4896}{1}$ (very young specimens); Belgachia, Calcutta (N. Annandale), Reg. Nos. $\frac{4730}{1}$, $\frac{4732}{1}$; Loc? (Indian Tanks), Reg. Nos. $\frac{4720}{1}$ and $\frac{5109}{1}$; Patna, Reg. No. $\frac{4900}{1}$; Bandar-daha, Berhampur, Bengal (B. L. Chaudhuri), Reg. No. $\frac{5234}{1}$; Silcuri, Reg. No. $\frac{4864}{1}$; Barrack River, Silchar, Reg. No. $\frac{5047}{1}$; E. Cachar, Reg. No. $\frac{4899}{1}$; Igatpuri, Western Ghats (Museum Collector), young specimens, Reg. No. $\frac{4794}{1}$; Putna, Mirzapur District, U. P. (R. Hodgart), Reg. No. $\frac{4750}{1}$.

76a. Var. *obesus* (Hanley and Theobald), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 855, = *Unio marginalis* var. *obesa*, Hanley and Theobald, Conch. Ind., p. 20, pl. xliii, fig. 3, = ?*Unio corrianus*, Sowerby, Conch. Icon., XVI, 1868, pl. lxxvii, fig. 41.

Chittagong, Reg. No. $\frac{5034}{1}$; Silchar, Cachar, Reg. No. $\frac{4881}{1}$; Toungoo, Burma, Reg. No. $\frac{2526}{1}$.

76b. Var. *tricolor* (Hanley and Theobald), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 855, = *Unio tricolor*, Küster, Conch. Cab. Unio., 1856, p. 156, pl. xlv, fig. 1, = *Unio marginalis* var. *tricolor*, Hanley and Theobald, Conch. Ind., p. 20, pl. xliii, fig. 5.

Shuaygoomyo, Reg. No. $\frac{2333}{1}$; Manbhoom, Reg. No. $\frac{4893}{1}$.

76c. Var. *candaharicus* (Hutton), = *Lamellidens marginalis* var. *candaharicus* (Hanley and Theobald), in Simpson's Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 855, = *Unio marginalis* var. *candaharica*, Hanley and Theobald, Conch. Ind., p. 20, pl. xliii, fig. 4, = *Unio marginalis* var. *kandaharica*, Hutton, in Theobald's Cat. L. and F. W. Shells, Brit. Ind., p. 46, = *Unio candaharicus*, Hutton, Jl. As. Soc. Beng., XVIII, Pt. 2, 1850, p. 660.

Kandahar (Hutton), Reg. No. $\frac{4901}{1}$; Kandahar, Reg. No. $\frac{4723}{1}$.

76d. Var. *thwaitesi*, Lea, = *Lamellidens thwaitesi*, Lea, in Simpson's Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 856, = *Unio thwaitesi*, Lea, Proc. Ac. Nat. Sci., Philad., III, 1859, p. 152; Jl. Acad. Nat. Sci., Philad., IV, 1860, p. 246, pl. xxxvii, fig. 125, = *Margaron (Unio) thwaitesi*, Lea, Syn., 1870, p. 41, = *Unio conso-brinus*, Hanley and Theobald, Conch. Icon., p. 19, pl. xli, fig. 7.

Ceylon, Reg. Nos. $\frac{5043}{1}$, $\frac{4718}{1}$; Colombo, Reg. No. $\frac{4984}{1}$.

76e. Var. **consobrinus**, Lea,=*Lamellidens consobrinus*, Lea, in Simpson's Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 856,=*Unio consobrinus*, Lea, Proc. Ac. Nat. Sci., Philad., III, 1859, p. 331; Jl. Ac. Nat. Sci., Philad., 1860, p. 272, pl. xlv, fig. 152; Obs., VII, 1860, p. 90, pl. xlv, fig. 152,=*Margaron (Unio) consobrinus*, Lea, Syn., 1870, p. 46,=*Unio corbeti*, Deschamps, Bull. Soc. Zool. Fr., XVII, 1892, p. 68, fig.

Assam, Reg. No. $\frac{4895}{1}$; Poona, Reg. No. $\frac{1085}{1}$; Dacca, Reg. No. $\frac{4892}{1}$.

76f. Var. **lamellatus**, Lea,=*Lamellidens lamellatus*, Lea, in Simpson's Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 856,=*Unio lamellatus*, Lea, Tr. Am. Phil. Soc., VI, 1838, p. 19, pl. vi, fig. 16; Obs., II, 1838, p. 19, pl. vi, fig. 16,=*Margarita (Unio) lamellatus*, Lea, Syn., 1836, p. 26; 1838, p. 20,=*Margaron (Unio) lamellatus*, Lea, Syn., 1852, p. 29; 1870, p. 46,=*Unio layardii*, Lea, Proc. Ac. Sci., Philad., III, 1859, p. 153; Jl. Ac. Nat. Sci., Philad., IV, 1860, p. 243, pl. xxxvi, fig. 22,=*Margaron (Unio) layardii*, Lea, Syn., 1870, p. 46.

Upper Burma, Reg. No. $\frac{2441}{1}$; Calcutta, Reg. No. $\frac{1555}{1}$; Mandalay, Reg. Nos. $\frac{1721}{1}$ and $\frac{2549}{1}$; Pegu, Reg. No. $\frac{2359}{1}$; Bhamo (J. Anderson), Reg. No. $\frac{2525}{1}$; Matale, Ceylon, Reg. No. $\frac{1080}{1}$.

After a careful examination of a long series of this shell the author is unable to consider it other than a mere variety of *L. marginalis*.

76g. Var. **scutum**, Sowerby,=*Lamellidens scutum*, Sowerby, in Simpson's Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 857,=*Unio scutum*, Sowerby, Conch. Icon., 1868, XVI, pl. xciv, fig. 510; Hanley and Theobald, Conch. Ind. p. 22, pl. xlvi, fig. 1.

Tenasserim, Burma, Reg. No. $\frac{1986}{1}$; Rangoon (N. Annandale), Reg. No. $\frac{1784}{1}$.

76h. Var. **corrianus**, Lea,=*Lamellidens corrianus*, Lea, in Simpson's Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 857,=*Unio corrianus*, Lea, Tr. Am. Phil. Soc., VI, 1834, p. 65, pl. ix, fig. 25; Obs., I, 1834, p. 177, pl. ix, fig. 25,=*Margarita (Unio) corrianus*, Lea, Syn., 1836, p. 38; 1838, p. 25,=*Margaron (Unio) corrianus*, Lea, Syn., 1852, p. 38; 1870, p. 61.

Sibsagar, Assam (S. E. Peel), Reg. No. $\frac{4989}{1}$; Calcutta, Reg. Nos. $\frac{4884}{1}$, $\frac{4944}{1}$, $\frac{4897}{1}$ and $\frac{1719}{1}$; Pegu (W. T. Blanford), Reg. Nos. $\frac{1888}{1}$ and $\frac{2530}{1}$; Balagunge, Central Sylhet, Reg. No. $\frac{4865}{1}$; Burma, Reg. No. $\frac{2527}{1}$; Zayleyman, Upper Burma (J. Anderson), Reg. No. $\frac{4875}{1}$; Madras, Reg. No. $\frac{5000}{1}$; Berhampur, Murshidabad District, Bengal (S. W. Kemp), Reg. No. $\frac{5055}{1}$; Sambalpur, Reg. No. $\frac{1992}{1}$.

76i. Var. **generosus**, Gould,=*Lamellidens generosus* (Gould) in Simpson's Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 857,=*Unio generosus*, Gould, Proc. Bost. Soc. Nat. Hist., 1847, p. 220; Hanley and Theobald, Conch. Ind., p. 22, pl. xlvi, fig. 4,=*Unio generosus* var. *angustior*, Hanley and Theobald, Conch. Ind.,

p. 22, pl. xlvi, fig. 7, = *Margaron (Unio) generosus*, Lea, Syn., 1870, p. 29, = ?*Unio lamellatus*, Sowerby Conch. Icon., XVI, 1868, pl. xciv, fig. 511.

Myadong, Upper Burma (J. Anderson), Reg. No. $\frac{2531}{1}$; Mandalay (N. Annandale), Reg. Nos. $\frac{1725-29}{1}$; Bhamo (J. Coggin Brown), Reg. No. $\frac{4736}{1}$.

76j. Var. *jenkinsianus* (Benson), = *Lamellidens jenkinsianus*, (Benson) in Simpson's Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 857, = *Unio jenkinsianus*, Benson, Ann. Mag. Nat. Hist., Ser. 3, X, p. 185; Hanley and Theobald, Conch. Ind., pl. xli, fig. 4.

Upper Assam, Reg. No. $\frac{2116}{1}$; Sylhet, Reg. No. $\frac{5037}{1}$; Upper Bramaputra (F. Stoliczka), Reg. No. $\frac{4873}{1}$; Bhagalpur (Capt. Sherwill), Reg. No. $\frac{4878}{1}$.

76k. Var. *zonatus*, Deshayes, = *Unio zonatus*, Deshayes, Enc. Méth. Vers., II, p. 587; Hanley and Theobald, Conch. Ind., pl. xliv, fig. 2.

Rangoon, Reg. No. $\frac{5066}{1}$.

76l. Var. *sublamellatus* (Nevill, MS.) var. n.

An elongate, somewhat rostrate form, having the hinge teeth rather less developed.

Hab.—Burma (W. Theobald), Reg. No. $\frac{4711}{1}$ [Type].

76m. Var. *sawaddyensis* (Nevill, MS.) var. n.

Shell much more ovate and convex than the typical form, having the dorsal margin more arched and posteriorly ascending, the ventral margin and anterior side more rounded, and the posterior side produced and roundedly rostrate.

Hab.—Sawaddy River (Asiatic Society of Bengal), Reg. No. $\frac{2511}{1}$ [Type]; Bhamo (J. Anderson), Reg. No. $\frac{4704}{1}$; Sawaddy, Tengling Stream (J. Anderson), Reg. Nos. $\frac{2528}{1}$ and $\frac{2529}{1}$; Shuay-goomya, Upper Burma (J. Anderson), Reg. No. $\frac{2532}{1}$; Mandalay, Upper Burma (N. Annandale), Reg. Nos. $\frac{1720-21}{1}$.

77. *Lamellidens narainporensis*, sp. n.

Shell cuneate, moderately convex, posteriorly rostrate, dark reddish brown, covered, towards the margins, with a finely laminiferous periostracum, marked with concentric lines of growth, bearing two carinae on each valve running from the umbones in a dorsally posterior direction; umbones small, not prominent, somewhat coarsely corrugated; dorsal margin very gently arched; ventral margin scarcely rounded in the anterior and median regions, slightly curved posteriorly; anterior side abruptly rounded; posterior side sloping above, then angled and very abruptly descending; cardinal tooth in left valve obtusely triangular, erect, absent in right valve; lateral teeth anteriorly short, deeply grooved and projecting in right valve, erect and jagged in the left, posteriorly moderately elongate and bifurcated in both valves; anterior scars rather circular, deep; posterior scars lightly impressed; interior of shell pale flesh colour shading to iridescent bluish white, very minutely granulate.

Long. 35, lat. 84 mm.

Hab.—Narainpore Bhil, Murshidabad District, Bengal (C. J. Robertson Milne), Reg. No. $\frac{5056}{1}$ [Type].

78. **Lamellidens nongyangensis**, sp. n.

Shell very elongately ovate, inflated, covered with a blackish brown, finely laminiferous periostracum, concentrically marked with rather coarse lines of growth; dorsal margin anteriorly somewhat straight, posteriorly arched above, sloping and slightly excavated below; ventral margin scarcely rounded; anterior side abruptly descending; posterior side rostrate, obtusely rounded; cardinal teeth very anteriorly situate, triangular, erect lateral teeth elongate, also erect, terminating posteriorly in an abrupt slope; anterior scars deeply marked; posterior scars lightly impressed; interior of shell flesh-coloured shading to bluish, iridescent, minutely pitted and granulate.

Long. 45, lat. 94 mm.

Hab.—Nongyang Lake, South of Patkai, Reg. No. $\frac{5968}{1}$ [Type].

79. **Lamellidens phenchooganjensis**, sp. n.

Shell very elongately ovate, posteriorly obtusely rostrate, dark blackish brown, sculptured with fine concentric striae, crossed, especially in the anterior median region, by fine, slightly distant, transverse, radiate striae, thus presenting a minutely wrinkled appearance; umbones flattened, much eroded; dorsal margin anteriorly gently sloping, posteriorly more rapidly sloping in a slight curve; ventral margin scarcely rounded; anterior side angled above, gently rounded below; posterior side produced, angularly rounded; hinge teeth very elongate, somewhat fine; anterior scars ovate, moderately impressed; posterior scars roughly triangular, not well impressed; interior of shell shading from pale brown to bluish, nacreous, marked, especially towards the anterior ventral region, with very shallow radiate furrows.

Long. 42, lat. 86 mm.

Hab.—Phenchooganj, Central Sylhet, Reg. No. $\frac{4868}{1}$ [Type].

80. **Lamellidens mainwaringi** (Nevill, MS.) sp. n.

Shell rather small, cuneate, covered with a finely laminiferous periostracum; both valves marked with rather fine, concentric and finer, transverse, radiate, scratch-like striae; dorsal margin anteriorly gradually sloping, posteriorly arched and more rapidly descending; ventral margin somewhat straight; anterior side rounded; posterior side angled above and below, somewhat obliquely and obtusely rostrate; hinge-teeth well developed, moderately short; anterior adductor scar deeply impressed, posterior scar somewhat roughly triangular, well impressed; interior of shell bluish iridescent, rather granulate.

Long. 25.5, lat. 50 mm.

Hab.—Siliguri, Reg. Nos. $\frac{5016}{1}$ [Type], $\frac{3861}{1}$, $\frac{5102}{1}$; Namtsik, Dihang, Reg. No. $\frac{5070}{1}$.

Genus *Trapezoideus*, Simpson, 1900.

81. *Trapezoideus foliaceus* (Gould), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 858,=*Unio foliacea*, Gould, Proc. Bost. Nat. Hist. Soc., I, 1843, p. 141,=*Unio foliaceus*, Catlow and Reeve, Conch. Nom., 1845, p. 59; Hanley and Theobald, Conch. Ind., p. 19, pl. xlii, fig. 3,=*Margaron (Unio) foliaceus*, Lea, Syn., 1852, p. 39; 1870, p. 62,=*Unio peguensis*, Anthony, Am. Jl. Conch., I, 1865, p. 351, pl. xxv, fig. 2; Sowerby, Conch. Icon., XVI, 1868, pl. xcv, fig. 519,=*Margaron (Unio) peguensis*, Lea, Syn., 1870, p. 51.

Bhamo (J. Anderson), Reg. No. $\frac{47.07}{1}$; Pegu (W. T. Blanford), Reg. No. $\frac{257.6}{1}$; Pegu, Reg. No. $\frac{502.6}{1}$.

81a. Var. *zayleymanensis* (Nevill, MS.), var. n.

Shell thinner and smaller than the typical form, more produced anteriorly and much more obtuse posteriorly, the slight curve in the ventral margin is also absent.

Hab.—Bhamo (J. Anderson), Reg. No. $\frac{257.5}{1}$ [Type]; also from Bhamo, Reg. No. $\frac{257.2}{1}$; Zayleyman (J. Anderson), Reg. No. $\frac{257.4}{1}$.

82. *Trapezoideus misellus* (Morelet), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 859,=*Unio misellus*, Morelet, Jl. de Conch. XIII, 1865, p. 21; Ser. Conch., IV, 1875, p. 341, pl. xiv, fig. 2,=*Unio siamensis*, Lea, Proc. Ac. Nat. Sci., Philad., X, 1866, p. 133, Jl. Ac. Nat. Sci., Philad., VI, 1868, p. 279, pl. xxxviii, fig. 93; Obs., XII, 1869, p. 39, pl. xxxviii, fig. 93,=*Margaron (Unio) siamensis*, Lea, Syn., 1870, p. 57.

Tenasserim, Lower Burma, Reg. No. $\frac{507.4}{1}$; Irrawaddy River at Sagaing (J. Coggin Brown), Reg. Nos. $\frac{473.9}{1}$ — $\frac{474.1}{1}$.

82a. Var. *subclathratus*, von Martens, Arch. für Naturg., p. 44, pl. vi, fig. 3.

Sheinmagah, Shwebo Dist., Burma, Reg. No. $\frac{386.4}{1}$.

83. *Trapezoideus pallegoixi* (Sowerby), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 859,=*Anodon pallegoixi*, Sowerby, Conch. Icon., XVII, 1867, pl. xvii, fig. 17,=*Anodonia pallegoixi*, Clessin, Conch. Cab. Ano., 1876, p. 210, pl. lxiv, fig. 6.

Siam, Reg. No. $\frac{500.1}{1}$.

84. *Trapezoideus exolescens* (Gould), Simpson, Syn. Naiades, Proc. U.S. Nat. Mus., XXII, p. 859,=*Unio exolescens*, Gould, Proc. Bost. Soc. Nat. Hist., 1843, p. 141; Hanley and Theobald, Conch. Ind., p. 43, pl. cvii, fig. 5,=*Margaron (Unio) exolescens*, Lea, Syn., 1852, p. 32; 1870, p. 51.

Bhamo, Reg. No. $\frac{356.5}{1}$.

Genus *Arconaia*, Conrad, 1865.

85. *Arconaia lanceolata* (Lea), Simpson, Syn. Naiades, Proc. U. S. Nat. Mus., XXII, p. 860,=*Triquetra lanceolata*, Lea, Proc. Ac. Nat. Sci., Philad., VIII, 1856, p. 79,=*Hyria lanceolata*, Lea,

Proc. Ac. Nat. Sci., Philad., 1856, p. 300,=*Arconaia lanceolata*,
Conrad, Am. Jl. Conch., I, 1865, p. 234,=*Triquetra contorta*, Lea,
Proc. Ac. Nat. Sci., Philad., VIII, 1856, p. 300; Obs., VI, 1857, p.
39, pl. xxxiii, fig. 33,=*Hyria contorta*, Sowerby, Conch. Icon.,
XVII, 1869, pl. i, figs. 2a, 2b,=*Margaron (Triquetra) contorta*,
Lea, Syn., 1870, p. 26,=*Unio contortus*, Heude, Conch. Fluv.
Nank., 1877, pl. xv, fig. 31.

Lake Tungling, China, Reg. No. 497⁵

