

## Valvata—Continued.

—? *montanaensis* n. s. Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, pp. 591, 592, figs. 81-83, p. 591. Wash., 1876. F. B. Meek.

Formation: Cretaceous?

Location: Mouth of Judith river, on the Upper Missouri, Mont.

—? *montanaensis* (Meek) White. (1880.)

Twelfth Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., pt. 1, p. 102. Wash., 1880. C. A. White.

Formation: Cretaceous.

Location: Upper Missouri river region.

—? *montanaensis* (Meek) White. (1883.)

Third Ann. Rep. U. S. Geol. Sur., p. 470, pl. 27, fig. 24. Wash., 1883. C. A. White.

Formation: Cretaceous.

Location: Upper Missouri river region.

— *nana* n. s. Meek. (1873.)

Sixth Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., p. 507. Wash., 1873. F. B. Meek.

Formation: Cretaceous.

Location: Carleton's coal mine, Coalville, Utah.

— *nana* (Meek) White. (1879.)

Eleventh Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., p. 238. Wash., 1879. C. A. White.

Formation: Cretaceous.

Location: Coalville, Utah.

— *nana* (Meek) White. (1880.)

Twelfth Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., pt. 1, pp. 33, 34, pl. 12, figs. 17a, b. Wash., 1880. C. A. White.

Formation: Cretaceous.

Location: Carleton's coal mine, Coalville, Utah.

— *nana* (Meek) White. (1883.)

Third Ann. Rep. U. S. Geol. Sur., p. 470, pl. 5, figs. 19, 20. Wash., 1883. C. A. White.

Formation: Cretaceous.

Location: Coalville, Utah.

— *parvula* n. s. M. & H. (1856.)

Proc. Acad. Nat. Sci., Phila., vol. 8, for 1856, p. 123. Phila., 1857. Meek & Hayden.

Formation: Tertiary [Cretaceous].

Location: Three miles below Fort Union.

— *parvula* (M. & H.) Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, p. 591. Wash., 1876. F. B. Meek.

Formation: [Cretaceous.]

Location: Three miles below Fort Union, Dak.

— *parvula* (M. & H.) White. (1880.)

Twelfth Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., pt. 1, p. 102. Wash., 1880. C. A. White.

Formation: Cretaceous.

Location: Upper Missouri river region.

— *scabrida* (M. & H.) White. (1886.)

Bull. U. S. Geol. Sur. No. 29, p. 22, pl. 4, figs. 1-3, 19. Wash., 1886. C. A. White.

Formation: Jurassic.

Location: Eight miles north of Canyon city, Colo.; also Black hills of Dakota.

## Valvata—Continued.

— *scabrida* (M. & H.) White. (1883.)

Third Ann. Rep. U. S. Geol. Sur., p. 470, pl. 3, fig. 7. Wash., 1883. C. A. White.

Formation: Jurassic.

Location: Vicinity of the Black hills.

— *subumbilicata* (M. & H.) Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, pp. 590, 591, pl. 43, figs. 13a-c. Wash., 1876. F. B. Meek.

Formation: [Cretaceous.]

Location: Three miles below Fort Union, Dak.

— *subumbilicata* (M. & H.) White. (1880.)

Twelfth Ann. Rep. U. S. Geol. and Geogr. Sur. Terr., pt. 1, p. 102. Wash., 1880. C. A. White.

Formation: Cretaceous.

Location: Upper Missouri river region.

— *subumbilicata* (M. & H.) White. (1883.)

Third Ann. Rep. U. S. Geol. Sur., p. 470, pl. 27, fig. 25. Wash., 1883. C. A. White.

Formation: Cretaceous.

Location: Upper Missouri river region.

— ? (*Tropidina scabrida* n. s. M. & H. (1865.)

Paleont. Up. Missouri, Smithsonian. Cont. Knowl., vol. 14, No. 172, p. 113, pl. 4, figs. 2, a, b. Wash., 1865. Meek & Hayden.

Formation: Jurassic.

Location: Near southwest base of Black hills.

Vanikoro (*Quoy & Gaim*) Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, p. 329. Wash., 1876. F. B. Meek.

— *ambigua* (M. & H.) Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, pp. 330, 331, pl. 19, figs. 12a-d. Wash., 1876. F. B. Meek.

Formation: Cretaceous.

Location: Yellowstone river, 150 miles above its mouth.

— *ambigua* (M. & H.) Whitfield. (1880.)

Rep. Geol. Black Hills of Dak., pp. 430, 431, pl. 12, fig. 14. Wash., 1880. R. P. Whitfield.

Formation: Cretaceous.

Location: On the Cheyenne river, Black hills.

— *pulchella* nom. prov. Whiteaves. (1884.)

Geol. and Nat. Hist. Sur. Can., Mes. Form., vol. 1, pt. 8, pp. 215, 216, pl. 27, figs. 4, 4a. Montreal, 1884. J. F. Whiteaves.

Formation: Cretaceous.

Location: East end of Maud island, opposite Leading island.

## Vanikoropsis n. g. Meek. (1876.)

Rep. U. S. Geol. Sur. Terr., vol. 9, p. 331. Wash., 1876. F. B. Meek.

— *sucienalis* n. s. White. (1889.)

Bull. U. S. Geol. Sur. No. 51, p. 46, pl. 7, fig. 4. Wash., 1889. C. A. White.

Formation: Cretaceous.

Location: Suola Island,