

The larger and more characteristic varieties of *Operculina* are abundant in the tropical and sub-tropical seas of the eastern hemisphere, generally at depths of less than 30 fathoms, but also from time to time in deeper water. The smaller, starved variety inhabits a much wider area, its northern limit extending considerably within the arctic circle, but it is comparatively seldom met with south of the equator.

Cornuel has described a fossil, to all appearance a true *Operculina*,¹ from the Lower Cretaceous (Neocomian) beds of Haute-Marne, and Reuss has figured two forms, evidently *Operculinæ*, from the chalk of Maestricht; ² but the genus is comparatively rare prior to the commencement of the Tertiary epoch; it is found abundantly, however, in the limestones of the Nummulitic period and in many subsequent formations.

Operculina complanata, DeFrance, sp. (Pl. CXII. figs. 3, 4, 5, 8).

- "Operculum minimum," Plancus, 1739, Conch. Min., p. 18, pl. iii. fig. 1, A.B.C.
Lenticulites complanata, DeFrance, 1822, Dict. Sci. Nat., vol. xxv. p. 453.
 " " Basterot, 1825, Mém. Géol. Env. Bordeaux, pt. i. p. 18.
Operculina complanata, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 281, pl. xiv. figs. 7-10;—
 Modèle, No. 80.
 " *ammonea*, Leymerie, 1846, Mém. Soc. géol. France, sér. 2, vol. i. p. 359, pl. xiii.
 fig. 11, a.b.
 " *complanata*, Rüttimeyer, 1850, Schweizer Nummuliten-terrain, p. 108, pl. iv.
 fig. 56.
 " *arabica*, Carter, 1853, Journ. Bombay Br. R. Asiatic Soc., vol. iv. p. 437, pl. xviii.
 " *hardiei*, d'Archiac and Haime, 1853, Descr. Anim. Foss. du groupe nummulitique de
 l'Inde, p. 346, pl. xxxv. fig. 6, a.b.c.
 " *complanata*, Parker and Jones, 1861, Ann. and Mag. Nat. Hist., ser. 3, vol. viii.
 p. 229.
 " *studerii*, Kaufmann, 1867, Geol. Beschreib. des Pilatus, p. 151, pl. ix. figs. 1, 2.
 " *marginata*, Id. Ibid. p. 152, pl. ix. fig. 4.
 " *complanata*, Moebius, 1880, Foram. von Mauritius, p. 104.

Operculina complanata, var. *granulosa*, Leymerie. (Pl. CXII. figs. 6, 7, 9, 10).

- Amphistegina fleuriausi*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 304, No. 7 (name only),
 fide Reuss.
Operculina granulosa, Leymerie, 1846, Mém. Soc. géol. France, sér. 2, vol. i. p. 359, pl. xiii.
 fig. 12, a.b.
Amphistegina fleuriausi, Reuss, 1861, Sitzungsab. d. k. Ak. Wiss. Wien, vol. xlv. p. 308, pl. i.
 figs. 10-12.
Operculina irregularis, Reuss, 1864, Denkschr. d. k. Akad. Wiss. Wien, vol. xxiii. p. 10, pl. i.
 figs. 17, 18.
 " *granulata*, Gümbel, 1868, Abhandl. d. k. bayer. Akad. d. Wiss., II. Cl., vol. x. p. 663.
 pl. ii. fig. 111, a.b.

¹ *Operculina angularis*, Cornuel, 1848, Mém. Soc. géol. France, sér. 2, vol. iii. Mém. III. p. 256, pl. ii. figs. 20-22.

² *Operculina cretacea*, Reuss, 1861, Sitzungsab. d. k. Ak. Wiss. Wien, vol. xlv. p. 309, pl. ii. fig. 1; and the so-called *Amphistegina fleuriausi*.