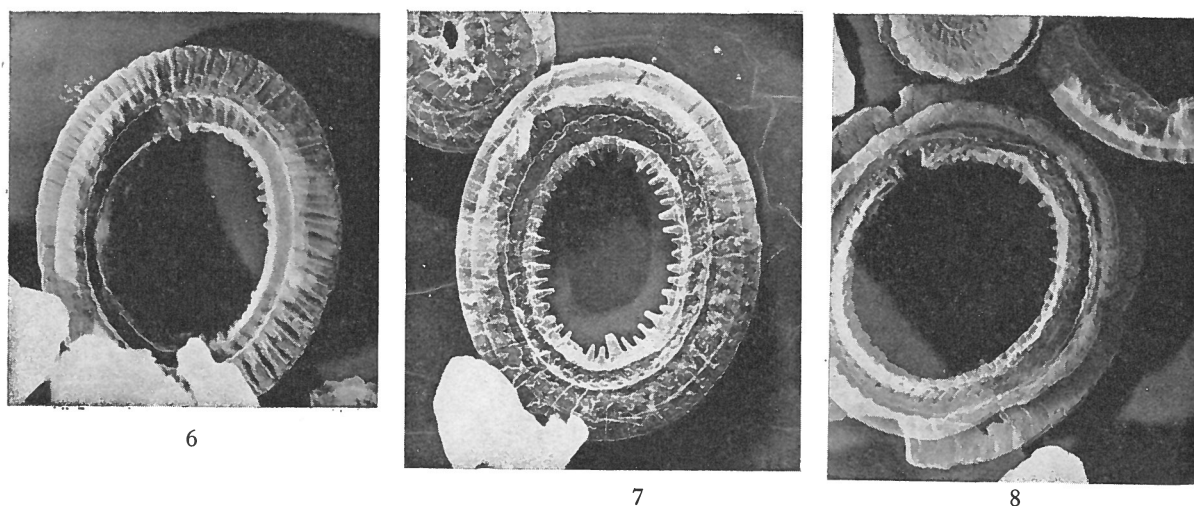


Manivitella pecten BLACK, 1973



Figs. 6-8 — *Manivitella pecten* sp. nov., x 3,400. 6) Distal view. Lower Gault, Mildenhall (H.924). SM 25988. 7) Holotype, distal view, with the outline of the proximal shield visible through a transparent carbon replica, Lower Gault, Mildenhall (H.927), SM 25822. 8) Proximal view, Lower Gault, Mildenhall (H.924). SM 25954.

Description:

Diagnosis: A species of *Manivitella* with a ring of centrally-directed projections lining the central opening.

Description: The sutures between the rays of the distal shield are straight and do not depart much from a radial direction. At about 3/4 of the distance from the external to the internal margin, the surface of the shield plunges steeply towards the centre. The opening is fringed by a ring, often incomplete, of short and slender peg-like projections.

The rays of the proximal shield are much like those of other species of the genus, being narrow and strongly inclined in a clockwise direction. Near the central opening the extremities of the rays are bent into an almost radial direction, and often narrow near the point of inflexion; the effect is to produce a narrow inner zone that lines the opening.

Measurements (in microns):

				d	d'	p	p'	c	c'	n
Holotype:	H.927	25822	distal view	14.7	12.1	12.9	10.9	9.0	6.7	48
	H.924	25954	proximal »	15.8	14.2	13.8	12.2	9.0	7.4	56
	»	25988	distal »	16.0	12.1	12.6	10.2	9.0	7.0	50
	»	25991	» »	12.3	10.1	—	—	7.6	5.7	45
	»	25845	proximal »	12.4	10.2	10.3	9.0	6.2	4.2	44
	H.945	26090	» »	13.5	10.8	12.0	9.3	8.1	5.7	48
	»	26104	distal »	13.0	10.2	—	—	8.5	6.0	44
	»	26195	» »	11.7	10.5	—	—	7.1	5.0	46

H.949	26824	»	»	16·0	13·7	14·2	12·3	9·0	7·2	46
H.959	27471	»	»	11·1	10·0	10·1	8·7	6·3	4·8	44
H.962	26257	proximal	»	10·8	9·0	9·2	7·8	7·0	4·3	42
H.1026	28488	»	»	12·5	10·7	10·3	8·7	6·3	5·0	48

d, d' = major and minor diameters respectively of the distal shield or distal surface.

p, p' = major and minor diameters of the proximal shield or proximal surface.

c, c' = major and minor diameters of the central area.

n = number of component elements in the distal shield, loxolith-ring or other marginal structure.

Type level:

Lower Gault.

Occurrence: Middle and Upper Albian. In the Lower Gault at Mildenhall (H.924, H.927) and Hockwold (H.945); in the Upper Gault (Bed XII) at Folkestone (H.1026) and in the Upper Gault at Mildenhall (H.962) and Hockwold (H.949, H.959).

Type locality:

Mildenhall (Southeastern England).

Depository:

Collection of electron micrographs at the Sedgwick Museum, Cambridge.

Holotype: SM 25822, fig. 7; from the Lower Gault at Mildenhall (H.927).

Author:

Black M., 1973, p. 79; pl. 23, figs. 6-8.

Reference:

British Lower Cretaceous Coccoliths. I. Gault Clay. *Palaeontogr. Soc. Monogr.*: (2), pp. 49-112, pls. 17-33, text-figs. 39-51.