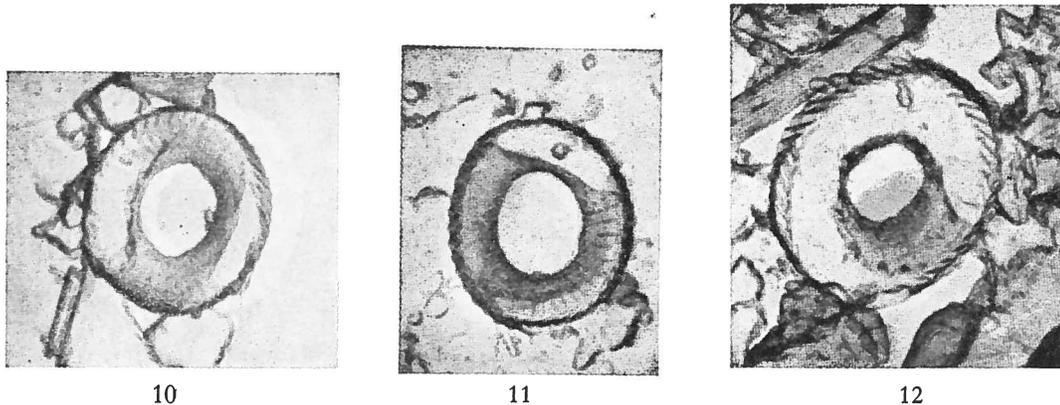


Pyrocyclus hermosus ROTH & HAY, 1967



FIGS. 10-12 — *Pyrocyclus hermosus* ROTH & HAY, n. sp. 10. Paratype IMS-J501-320, 9200 x, view of side B 554' 10'' below top of hole; 11. Holotype IMS-J501-226, 9200 x, view of side A, 554' 10'' below top of hole; 12. Paratype IMS-J503-662, 9200 x, view of side A, 484' below top of hole. Electron micrographs of carbon replicas.

Description:

Diagnosis: A species of *Pyrocyclus* with a large, open central area.

Description: The side shown in the view of the holotype (side A) is constructed of about 41 wedge-shaped elements which are strongly imbricate sinistrally. The sutures are straight, having a slight counterclockwise inclination over most of the surface of the shield, but curve sharply near the periphery to become inclined steeply clockwise. The other side (side B, shown in Fig. 10) shows an almost identical construction. The sutures run slightly counterclockwise, but are interrupted by a furrow not far from the margin of the central opening; near the periphery, the sutures again change direction abruptly to become inclined clockwise.

Length of holotype: 2.9 μ .

Length of paratypes: 2.9-3.5 μ .

Remarks:

Assignment of this species to the genus *Pyrocyclus* seems appropriate, as *Pyrocyclus hermosus* is more closely allied to *Pyrocyclus inversus* HAY & TOWE than to any other described species. It differs from *Pyrocyclus inversus* in having a large, open central area. The structure of coccoliths of this sort is still not well understood, and must await stereoscopic examination.

Type level:

Oligocene.

Distribution: This species ranges through the Oligocene of JOIDES Hole 5.

Type locality:

JOIDES Hole 5, Lat. 30° 23' N, Long. 80° 08' W, Blake Plateau.

Depository:

Institute of Marine Sciences, University of Miami, USA. Holotype: IMS-J501-226; paratypes: IMS-J501-320, J503-662.

Author:

Roth P. H. and Hay W. W. in Hay, Mohler, Roth, Schmidt and Boudreaux, 1967, p. 448; pl. 6, figs. 10-12.

Reference:

Calcareous Nannoplankton Zonation of the Cenozoic of the Gulf Coast and Caribbean-Antillean Area and Transoceanic Correlation. Gulf Coast Assoc. Geol. Societies, Transactions, vol. 17, pp. 428-480, pls. 1-13.