**Umbellosphaera tenuis** (KAMPTNER) emend. PAASCHE, 1955

1937, *Coccolithus tenuis* KAMPTNER, p. 311; pl. 17, figs. 41, 42a-c. *Arch. Protistenk.,* vol. 89.

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**Description:**

Diamenter of protoplast 7-10 μ; of complete organism 10-16 μ. Outer surface rather smooth, due to partly overlapping, curved upper brims of macro-coccoliths. Micro-coccolith, seen from above, elliptical (ratio 1.5), its main axis 2.6-3 μ. Lower disk elliptical (ratio 1.6) with main axis 1.6-1.8 μ and width of brim 0.1 μ or less. Central area divided into 0.1 μ-wide, approximately rectangular, delicately striated ribs protruding from the periphery and meeting half-way, forming a mainly transversal structure. Upper part presumably very low; its brim 0.5-0.6 μ in width. Number of segments about twenty. Micro-struture present of fine parallel radial elements. Entire coccolith very fragile in appearance.

Macro-coccolith slightly elliptical when seen from above (ratio about 1.25). Main axis ranging from 4.4 to 8.1 μ (average length 6 μ). Lower disk almost circular.
Diameter 2 μ; width of periphery 0.2 μ. Structure of central area as described above for macro-coccolith. Upper part broadly funnel-shaped, height never exceeding one fourth of its diameter. Tubular part gradually widening, passing into the convex, umbrella-like outer brim. Radial stripes about twenty-five, straight or slightly curved, often irregular, and sometimes disappearing before reaching the edge. Micro-structure very coarse, made up of more or less parallel stripes, often running at angles to the radii, their ends protruding at the edge of the coccolith.

Remarks:

The two species of the new genus Umbellosphaera, U. irregularis and U. tenuis, evidently are closely related. The morphological features of the funnel-shaped upper parts of the macro-coccoliths are the only significant marks of distinction. In the light microscope, the peculiarities in shape of these coccoliths, so distinctive to the exterior appearance of the coccolithophorid as a whole, are recognized readily. In the electron microscope, the much coarser and more irregular micro-structure of U. tenuis may serve as a distinction from U. irregularis.

Type level:

Recent.

Type locality:

Sample form the Gulf Stream (38° N, 70° W), collected on November 11, 1953.

Depository:

Not given.

Author:

Paasche E. in Paasche E. & Markali J., 1955, p. 96; pls. 1, 2.

Reference:

On Two Species of Umbellosphaera, a New Marine Coccolithophorid Genus. Nytt Magasin for Botanikk, vol. 4, pp. 95-100, 6 pls.