14. Calciarcus alaskensis Manton et al. (1977)
Pl. 8, figs 22-26

Pl. 8. *Calciarcus alaskensis* sp. nov. n. gen. from S. Alaska, the probed specimen (for chemical information see graphs in figure 27) with the fields tested marked A and B where appropriate.

Fig. 22. General view of the field of scales before probing. Micrograph Y 7848.41 (Lancaster 801) (magn. x 15000).

Fig. 23. Right side of the field of figure 22 before probing showing patterning on the unmineralized base-plates and a small oval scale from the underlayer emerging near field A. Micrograph Y 7848.45 (Lancaster 801) (magn. x 40000).

Fig. 24. Part of the left side of figure 22 unprobed showing patterning on the unmineralized plates and segmental substructure in the dense objects (see especially extreme left and right). Micrograph Y 7848.43 (Lancaster 801) (magn. x 40000).

Fig. 25. The field containing the periplast among fragments of diatoms after probing, with contaminational deposits produced by this treatment, shown more highly magnified in figure 26. Micrograph Y 7867 (A.E.I.CORA) (magn. x 5000).

Fig. 26. The two probed fields more highly magnified, field A marked by a contaminational ring covering a complete scale, field B with 3 separate components appearing as dense spots on a single scale. For further information see text and figure 27. Micrograph Y 7864 (A.E.I.CORA) (magn. x 20000).

Circular scales of the outer layer *ca.* 0.6 11 μm diam., with the peripheral band narrow and the surface pattern of ridges arranged in quadrants. Calcification limited to a short blunt spine attached to four support struts, each *ca.* 0.35 μm long, 0.05 μm wide, transversely striated and without structurally specialized means of attachment to the subtending plate. Patterning on the small unmineralized oval scales of the underlayer simpler and limited to equally spaced peripheral radial ridges not extending to the scale centre which is patternless.

**Type specimen:** figures 22-26, collected in the sea near Homer, South Alaska in June 1976, other details unknown.

Squama orbicularis strati exterioris circiter 0.65 μm diam., trabes suffultoriae spinea rudimentariae circiter 0.35 μm longae, quaque complures crystallitas continente; cingulum angustum, non calcificatum; costae laminae in quattuor fasces dispositae. Squama ovalis strati interioris circiter 0.35 x 0.25 μm diam., substantia minerali omnino carens, cingulo funiculari marginata, costis e parte centrali ut videtur laevi aequidistanter radiantisbus ornata. Mense Junio anni 1975 prope pagum alaskanum Homer e summo mari lecta, figuris 22-26 typificis monstrata.

**Manton, I., Sutherland, J. & Oates, K., 1977. Arctic coccolithophorids: Wigwamma arctica gen. et sp. nov. from Greenland and arctic Canada, W. annulifera sp. nov.**