Umbria granulosa Bralower & Thierstein in Bralower et al. (1989) minor Bralower & Thierstein in Bralower et al. (1989)

Description: A small elliptical form with a similar rim structure to Umbria granulosa subsp. granulosa. This species contains numerous pores at the border between the central area and the rim. The central area is otherwise granular.

Remarks: This subspecies has only been observed in DSDP sequences whereas Umbria granulosa subsp. granulosa has been observed in the land sections as well. Umbria granulosa subsp. minor has not yet been observed in the SEM but is obviously a precursor to Umbria granulosa subsp. granulosa. At DSDP Site 391C, the range of Umbria granulosa subsp. minor overlaps with that of Umbria granulosa subsp. granulosa for 10 meters while at DSDP Site 534A, the two subspecies are only found together in one sample.

Differential diagnosis: Umbria granulosa subsp. minor is differentiated from Umbria granulosa subsp. granulosa based on size and central area structure. This subspecies has a maximum diameter less than 6µm whereas that of Umbria granulosa subsp. granulosa is between 5.5 and 10 µm. There is thus some overlap in the size range of these two subspecies. Umbria granulosa subsp. minor has a row of pores on the outer edge of the central area whereas the central area of Umbria granulosa subsp. granulosa lacks pores.

Maximum diameter: 4-6 µm. Holotype: [8620-11]' (A 1101), Plate I, Figs. 6, 7.

Type locality: DSDP Sample 534A-95-1, 65 cm.

Distribution: Blake Bahama Basin, Western N. Atlantic.

Known range: middle (CM20n) to Upper Tithonian (CM19n).