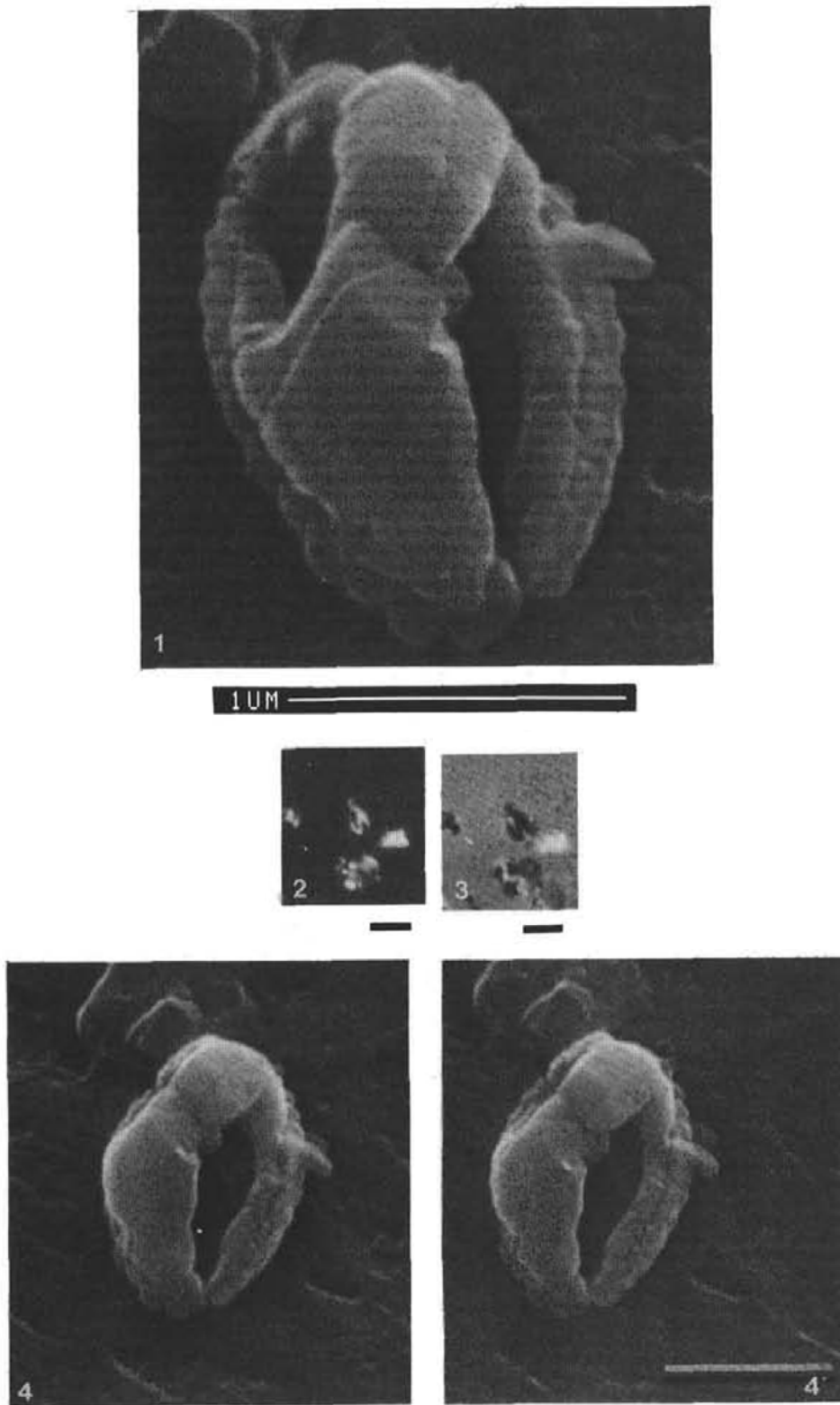


112. *Gephyrocapsa theyeri* Pujos (1987)



Pl. 3, figs 1-4

= *Gephyrocapsa* sp. 1 SAMTLEBEN, pl. 12, figs. 23, 26, 27.

**Diagnosis:** very small species belonging to the *Gephyrocapsa* genus, with a broad and clearly elevated cross-bar.

**Description:** it is a very small *Gephyrocapsa* (length = 1,65 µm; width = 1,125 µm) with a wide open central area (length = 1,3 µm; width = 0,65 µm). The distal shield has 30 regular elements and the proximal one has about 24 elements. The most characteristic feature is a heavy cross-bar which covers most of the central area; it is 0,925 µm wide at its base and 0,375 µm wide in its middle part; each half-bar is made of 4 elongated elements stemming from 6 elements of the proximal shield. This cross-bar is elevated above the plane of the shields like a bridge; there is a kind of break in the bridge roundness, like a plane face of calcite crystal on each half part of the bridge just at the place where they meet. The bar makes an angle of 34° with the long axis of the coccolith. With an optical microscope, *G. theyeri* gives a Z figure, like *G. sinuosa* does occasionally.

I name this species *theyeri* in honour of FRITZ THEYER who was a chief scientist of DSDP Leg 85.

**Differences:** *G. theyeri* resembles many small Pleistocene *Gephyrocapsa*. It can be distinguished by its dimension (in µm) and morphological details:

<i>Gephyrocapsa</i> species	Total length	Total width	Shield thickness	Bar thickness	Bar angle	No. of distal elements
<i>sinuosa</i> +)	2.4	2.0	?	0.75	43°	?
<i>aperta</i> f. 1*)	1.55	1.10	0.30	0.15	32°	26
<i>aperta</i> f. 2*)	2.10	1.35	0.45	0.15	32°	26
<i>ericsonii</i> *)	2.20	1.70	0.55	0.275	30°	32
sp. 1°)	2.10	1.6	0.40	1.0-0.425	40°	24-34
<i>theyeri</i>	1.65	1.125	0.30	0.925-0.375	34°	30

\*) in Pujos-Lamy (1976); +) in Hay & Beaudry (1973); °) in Samtleben (1980)

Except for *G. aperta* f. 1, *G. theyeri* is the smallest of these *Gephyrocapsa*. It resembles *G. ericsonii*, because they both have an elevated bridge, but the bridge of *G. theyeri* is much wider at its base. The general appearance of *G. sinuosa* is similar to that of *G. theyeri*, but the original diagnosis of *G. sinuosa* HAY & BEAUDRY (1973) gives only an optical microscope picture which does not show enough detail.

**Type level:** early Late Miocene to Late Pliocene.

**Type locality:** central equatorial Pacific Ocean, DSDP Leg 85, Site 572.

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*G. theyeri* is often frequent in abundance at Site 572. Another *Gephyrocapsa* is also present in the same samples. Their coccoliths are slightly longer than those of *G. theyeri* (L = 2 µm) and their appearance is really different: they are very close to some "*G. sinuosa*" by SAMTLEBEN (1980). I have very few photos of this type, so I name it *G. cf. sinuosa*.

Pujos, A., 1987. Late Eocene to Pleistocene Medium-Sized and Small-Sized "Reticulofenestrads". *Abh. Geol. B.-A.*, **39**: 239-277.