Archaeozygodiscus koesseni

Archaeozygodiscus koesseni Bown, 1985

Figs. 1-3 - Archaeozygodiscus koesseni sp. nov.
Fig. 1) Holotype, UCL-2040-33; distal view, x 16,300; sample E136.
Fig. 2) Paratype, UCL-2040-29; distal view, x 15,800; sample E136.
Fig. 3) Paratype, UCL-2036-25; proximal view, x 15,000; sample E136.

Description:

Diagnosis: A species of Archaeozygodiscus with the short axis of the ellipse spanned by a bar constructed from a number of calcite elements. The centre of the bar has a circular hole which may or may not be a spine base.

Dimensions: Length holotype 1.9 microns, width 1.4 microns.

Remarks:

Superficially similar to the younger form Zygodiscus erectus (Deflandre) Lezaud but a number of features are thought to warrant the recognition of a new genus and species. The elliptical rim of A. koesseni possesses a typical loxolith structure as do the coccoliths of Zygodiscus, however, the elements are imbricating in the opposite direction and the rim includes an additional inner cycle of tangential elements. Archaeozygodiscus is also distinctive in its diminutive size of 1.9 to 3.2 microns.

Type level:

Kossener Schichten; Ch. marshi ammonite Zone, Rhaetian.
Range: Upper suessi Zone, Norian to marshi Zone, Rhaetian.

Type locality:

Weissloferbach, near Kosseu, Austria.

Depository:

Holotype: Neg. no. UCL - 2040-33; plate 1, fig. 1.
Paratypes: Neg. no. UCL - 2040-29; plate 1, fig. 2.
Neg. no. UCL - 2028-10; plate 1, fig. 3.
Author:
Bown P., 1985, p. 32; pl. 1, figs. 1-3.

Reference:
Archaeozygodiscus gen. nov. and other Triassic coccoliths. INA news., vol. 7, no. 1, pp. 32-35, 1 pl.