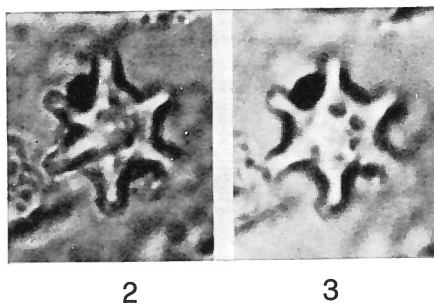


Discoaster sanmiguelensis BUKRY, 1981



Figs. 2, 3 — *Discoaster sanmiguelensis*
n. sp. DSDP Sample 468-9, CC, (2, 3)
Holotype, USNM 307302, low and high
focus (LF and HF). $\times 2050$.

Description:

Discoaster sanmiguelensis has six short, broadly tapered rays with a slight indentation or slight bifurcation at the tips. The interray areas are broadly rounded. A large, star-shaped knob dominates the central area of one side of the asterolith; the knob rays point to the interray areas on most specimens.

Size: Maximum diameter: 9 to 15 μm (holotype 10 μm).

Remarks:

Discoaster sanmiguelensis is characterized by short, slightly bifid rays and a large, central-area knob on one side. It is distinguished from similar species *Discoaster bollii* MARTINI & BRAMLETTE by less bifid rays and the lack of knobs on opposite sides, from *D. kugleri* MARTINI & BRAMLETTE by a large knob, from *D. adamanteus* BRAMLETTE & WILCOXON by narrower bifid rays, from *D. altus* MÜLLER by bifid rays and knob-ray alignment, from *D. deflandrei* BRAMLETTE & RIEDEL by larger knob and much narrower ray tips, from *D. formosus* MARTINI & WORSLEY by shorter rays and smaller size, from *D. stellulus* GARTNER by larger knob and bifid ray tips, and from *D. toralus* ELLIS, LOHMAN & WRAY by larger knob and tapered, small, bifid ray tips.

Type level:

Middle Miocene.

Occurrence: *Discoaster sanmiguelensis* is known from the California Continental Borderland in strata of middle Miocene Zone CN5 and uppermost Zone CN4.

The most prominent Leg 63 occurrences are at Site 468 in Cores 2 to 9, assigned to Subzone CN5a. It also occurs in USGS borderland core S3-79-SC-259 and -312 from CN4 and CN5a, respectively.

Type locality:

California Continental Borderland DSDP Sample 468-9,cc (79 m).

Depository:

United States National Museum.
Holotype: USNM 307302.
Isotypes: USNM 307303 to 307314.

Author:

Bukry D., 1981, p. 462; pl. 2, figs. 7-10; pl. 3, figs. 1-14.

Reference:

Pacific coast coccolith stratigraphy between Point Conception and Cabo Corrientes, Deep Sea Drilling Project Leg 63. Initial Reports of the Deep Sea Drilling Project, vol. 63, pp. 445-471, 6 pls., 14 text-figs.