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SHORT COMMUNICATION

ADDITIONAL COMMENTS TO "REPRESENTATIVES OF SOME DIAGNOSTIC AGGLUTINATED FORAMINIFERAL GENERA OF THE SUBCLASS MONOTHALAMANA (*Bathysiphon, Orbulinelloides, Repmanina, Miliammina, Agglutinella, Dentostomenia, Ammomassilina, Psammolingulina*) IN THE TETHYS" BY ANAN (2021)

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ABSTRACT

The species is *Orbulinelloides kaminskii* Anan, 2021 was described based on an illustration published by Kaminski & Huang in 1991. In this study we located and investigated the type specimen of *O. kaminskii* and confirmed that the outer wall displays randomly-placed openings that vary in size from 5–15 microns in diameter. The holotype specimen has been deposited in the collections of the European Micropaleontological Reference Centre, located at the AGH University of Science & Technology in Kraków, Poland.

KEYWORDS

Taxonomy, Foraminifera, holotype.

1. INTRODUCTION

In a paper recently published in this journal, a researcher published the descriptions of several new species of agglutinated foraminifera. One of the newly described species is *Orbulinelloides kaminskii* Anan, 2021 which one of us (MAK) first illustrated in open nomenclature in an ODP report (Kaminski and Huang, 1991). The type specimen of the species was given as deposited "in the private collection of Prof. M. Kaminski". The species was described by Anan as follows: "The figured specimen of Kaminski & Huang has coarsely to moderate agglutinated grains of the globular test, without elevated apertures on projection".

The purpose of this note is to provide additional information on the location of the holotype, a more detailed description, and additional illustrations that depict the morphology and wall structure of this species.

2. THE TYPE SPECIMEN

The Kaminski Collection of Foraminifera is now housed in the European Micropaleontological Reference Centre, Micropress Europe, which is located at the AGH University of Science & Technology in Kraków, Poland. The collection at the EMRC contains all the faunal microscope slides from ODP Site 767 that were used in the study of Kaminski & Huang (1991). These slides are archived in Cabinet 14 drawers 22 and 23. The specimen illustrated by Kaminski & Huang (1991, pl. 1, fig. 11) as "*Psammosphaera* sp.", was preserved in a slide labeled "plesiotypes" and has now been moved to a separate slide labeled "*Orbulinelloides kaminskii* Anan, 2021, Holotype". This slide has been archived in the EMRC's collection of primary types in Cabinet 7, drawer 4. We searched all the picked microscope slides from ODP Site 767 from the Kaminski & Huang (1991) study, but we did not find any additional specimens belonging to the species. Only the holotype specimen was found.

3. DESCRIPTION

Genus *Orbulinelloides* Saidova, 1975

Orbulinelloides kaminskii Anan, 2021

Figure 1, a-e

Test monothalamous, oval in outline, with a relatively coarse wall comprised of medium to coarse siliciclastic agglutinated particles embedded in a matrix of smaller grains. Agglutinated grains vary in dimensions from several microns to ca. 50 microns. The larger grains are arranged with their flat surface facing the exterior (in a terrazzo manner). The wall is traversed by numerous randomly placed pores ranging in size from 5 to 15 microns. Pores may be circular or angular in outline and are surrounded by a ring of small (several microns) agglutinated grains. Pores are flush with the surface, without elevated projections.

Remarks: Differs from the type species *Orbulinelloides agglutinatus* (Saidova) from the boreal North Pacific in lacking calcareous agglutinated grains.

Type Locality: ODP Site 767, Celebes Sea

Type Level: Lower Eocene, Sample 767C, 11R-1, 54-57 cm.

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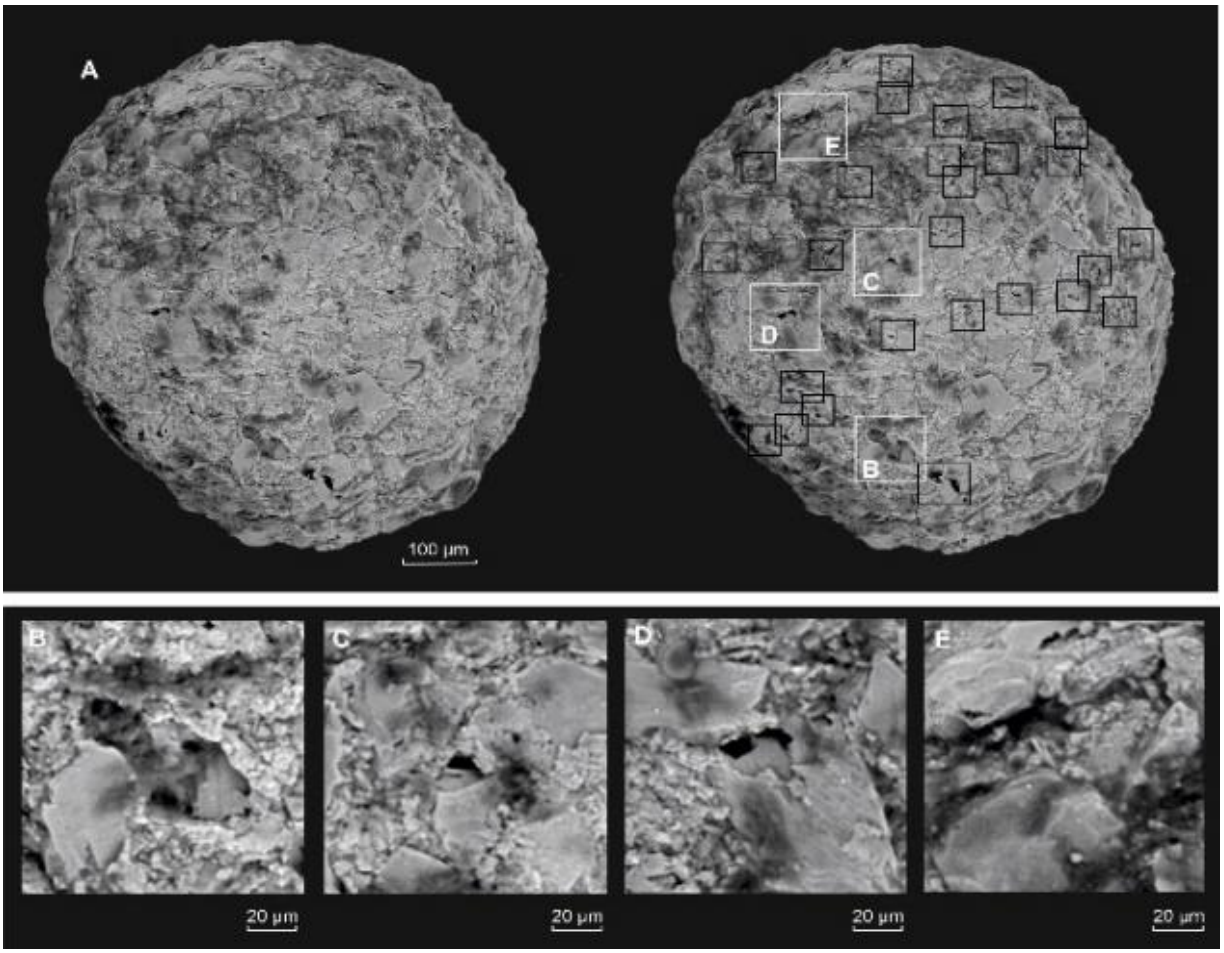

Figure 1A. SEM picture of *Orbulinelloides agglutinatus* holotype specimen. 1B. pores within the test (locations of enlarged photos are marked with white squares). Black squares indicate the position of pores. 1C-E. Details of pores.

Conclusions

The holotype of *Orbulinelloides kaminskii* Anan, 2021 has been located and is now archived in the collections of the European Micropaleontological Reference Centre, at the AGH University of Science & Technology in Kraków, Poland. Detailed investigation of the wall structure of this specimen reveals the presence of pores, as mentioned in the description of the species by Anan (2021), even though this feature was not visible in the illustration provided by Anan. Prof. Anan was therefore correct in transferring the species from the genus *Psammosphaera* to the genus *Orbulinelloides*.

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