



## Upper Campanian calcareous nanofossils from the Core 2-RSS-1, Pelotas Basin, Brazil

R. M. GUERRA<sup>1</sup>, L. R. TOKUTAKE<sup>2</sup> and G. FAUTH<sup>1</sup>

The deep wells drilled in the Pelotas Basin, located in the southernmost of Brazil, represent a rare opportunity to understand the geological evolution of the region during the Cretaceous. The biostratigraphic framework proposed for the basin used outdated data, demanding new studies for its improvement. The calcareous nanofossils of the core 2-RSS-1 (depth interval 4480.35 - 4487.70 meters), drilled by Petrobras in the offshore portion of the basin are reported here. Thirty species were recognized, the most important of them are *Arkhangelskiella cymbiformis* Vekshina, *Broinsonia parca constricta* (Stradner) Hattner, Wind and Wise, *Calculites obscurus* (Deflandre) Prins and Sissingh, *Eiffelithus turriseiffelii* (Deflandre) Reinhardt, *Microrhabdulus decoratus* Deflandre, *Micula decussata* Vekshina, *Reinhardtites levis* Prins and Sissingh, *Retecapsa crenulata* (Bramlette and Martini) Grün, *Tranolithus orionatus* (Reinhardt) Reinhardt, and *Uniplanarius sissinghii* Perch-Nielsen. The co-occurrence of *Broinsonia parca constricta* and *Reinhardtites levis* indicates that the studied rocks are included in the Standard biozones CC22b to CC23a. According to the Cretaceous Standard zonation used in the present work, the studied interval is deposited close to the Upper Campanian boundary. The present and forthcoming studies will contribute to the improvement of the biostratigraphic scheme previously proposed for the Cretaceous of the Pelotas Basin.

1 Laboratório de Micropaleontologia, UNISINOS. Av. Unisinos, 950, São Leopoldo, RS, Brasil. [rmguerra@unisinos.com.br](mailto:rmguerra@unisinos.com.br), [gersonf@unisinos.br](mailto:gersonf@unisinos.br)

2 Departamento de Exploração, Setor de Sedimentologia e Estratigrafia, PETROBRAS, Unidade UN-ES, Av. Fernando Ferrari, 1000, Vitória, ES, Brasil. [tokutake@petrobras.com.br](mailto:tokutake@petrobras.com.br)