

Quaternary calcareous nannofossil biostratigraphy and stable isotope stratigraphy (C and O) from middle slope, northern portion of Campos Basin, Brazil

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This work presents paleoenvironmental interpretations for the last 130 kyr in one middle slope core located in the northern portion of the Campos Basin. We used the method of triangular co-ordinate diagram applied to calcareous nannofossils. This method is used to estimate environmental characters by plotting nannofossil quantitative data (Tokutake & Toledo, 2007; Toledo *et al.*, 2005). It can be useful for paleoceanographic and paleoproductivity studies. The same samples were collected for calcareous nannofossils and stable isotopes (C and O).

Calcareous nannofossil results show an absolute predominance of three taxa: *Florisphaera profunda*, *Emiliania huxleyi* and *Gephyrocapsa* spp. Some estimates were made by means of comparisons between the same species plotted in Okada's triangle (Okada, 1992) in order to compare the effect of temperature, depth and nutrient availability on coccolithophore community.

Isotope stratigraphy reveals a good correlation with $\delta^{18}\text{O}$ isotopic stages. The carbon isotope stratigraphy data shows a good correlation with abundance variations of *Gephyrocapsa* spp., indicating variations in the nutrient availability.

References

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