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FACULDADE DE CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE NOVA DE LISBOA

Earth Sciences Department

Neogene Foraminifera of Portugal

CENTRO DE INVESTIGAÇÃO EM CIÊNCIA E ENGENHARIA GEOLÓGICA
UNIVERSIDADE NOVA DE LISBOA

LNEG
Laboratório Nacional de Energia e Geologia, I. P.

VNiVERSiDAD D SALAMANCA

UA

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Objectives

To improve the knowledge of the lithostratigraphy, biostratigraphy and chronostratigraphy of the Neogene of Portugal (namely of the Lower Tagus Basin and Algarve platform).

Biostratigraphy based on several taxonomic groups — **foraminifera**, calcareous nannofossils, ostracoda, and mammals — coupled with isotopic ages (Sr) and palaeomagnetostratigraphy.

Paleogeographic evolution of Portugal during the Neogene.

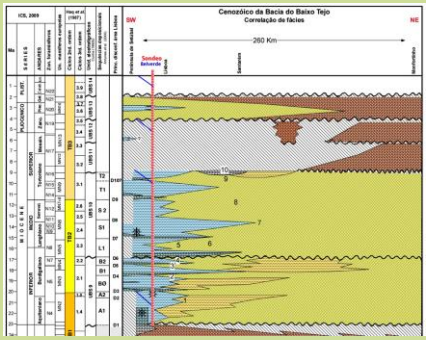
Methodology

- Geological mapping.
- Observation, description, and sampling of the most representative geological sections and of the Belverde stratigraphic well. **[1]**
- Study of the planktonic (biostratigraphy) and benthic foraminifera (paleoecology and paleogeography). **[2]**
- Application of sequence stratigraphy.
- $^{87}Sr/^{86}Sr$ ages of mollusc shells.
- Magnetostratigraphic data.

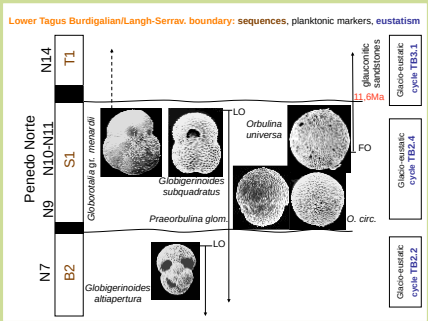
Expected Results

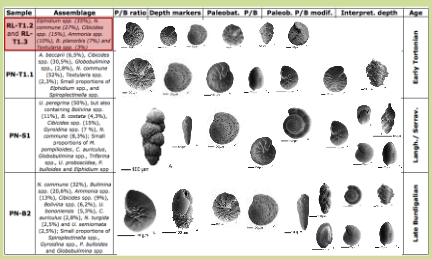
- High-resolution stratigraphy of the Miocene of the Lower Tagus Basin.
- Sr ages and biostratigraphic data for the Miocene of Algarve.
- Updated chronostratigraphic framework of the Neogene of Portugal.
- Contribution to the knowledge of the Neogene geological evolution of Iberia. **[3]**
- Ages of seismostratigraphic units in the Algarve margin.
- The classification of geosites in the framework of the portuguese Cenozoic basins.

[1]



[2]





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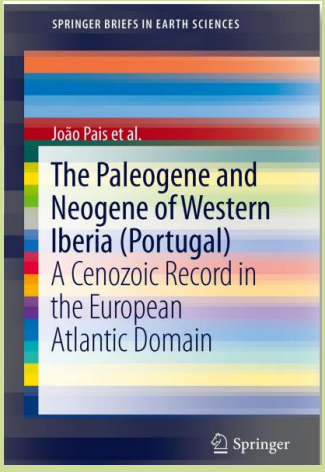

Funding:

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Fundação para a Ciência e a Tecnologia
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