



Field Geology for Environment Awareness

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The objective of this project is to show the scientific and educational potential of natural environment of Lisbon region through increase of excitement for plate tectonics subjects to high school students.

It is expected the students be able to understand the main concepts of the plate tectonics, stratigraphy, paleontology and paleoenvironmental interpretations, explain in the field nearby Lisbon.

The richness of Guincho beach geodiversity and “Sintra Syenite Complex” value the geological patrimony. Combining these entities and educational purposes will raise awareness to sustainable attitudes favoring the preservation of natural patrimony by the students.

The subjects approached in the project are based on the inspection of several outcrops related to the evolution of the Iberian Plate at early Mesozoic period, at several places of geological interest. The landscape of Guincho is dominated by Mesozoic formations that show good conditions paleoenvironmental and geodynamic interpretations associated to the opening of the North Atlantic. Moreover it reveals the environment linked to the magmatic intrusion of the “Sintra Alkaline Complex” at the end of Cretaceous.

It is believed the contact with field is crucial to the awareness of young people to subjects that are not daily matters, however important when presented in the light of an urgent society problem such as environment preservation, at all levels by all people.