5 - Teaching-Learning Sequences as Innovations for Science Teaching and Learning | Empirical

SP - (16388) - DESIGN OF TEACHING AND LEARNING MATERIALS THROUGH THE BIOTA/FAPESP-PROGRAM: ARAÇÁ BAY AS AN EDUCATIONAL RESOURCE

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Short Abstract

The Biota/FAPESP Program (BFP), created in March 1999, is considered one of the largest biodiversity programs in Brazil. However, BFP failed to translate scientific advancements into teaching material for use in schools. To fill this gap, there has been a thematic project entitled "The Biota-FAPESP program in basic education: possibilities for curricular integration" (BFP-BE), whose main objective is to promote actions aimed at the use and dissemination of data generated by the BFP. We choose the database from one of the major projects in the marine area, Biota/FAPESP - Araçá (BFA): "Biodiversity and functioning of a subtropical coastal ecosystem: support for integrated management", due to its valuable contributions to marine science as well as conservation and marine management. As BFA demonstrated how the advancement of scientific knowledge on biodiversity and its socio-economic relevance is essential to improve the legal instruments, we choose to produce teaching and learning materials in a Science-Technology-Society-Environment (STSE) perspective. The databases from the projects "Relevance of Science Education" (ROSE) and "Student Knowledge in the International Perspective: Evolution, Nature, and Society" (SAPIENS) will also be used as a guide to apply the real demands and interests of students from different Brazilian regions. In this paper, we present the Socio-Scientific Issue and the first subjects chosen to design teaching and learning materials in a STSE perspective.