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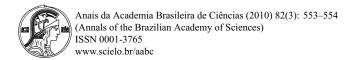
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EDITORIAL NOTE

Origin of thickening in monocotyledon stems, slope variation and population struct in a riparian forest, and the influence of seagrass beds in fish community structure

> ALEXANDER W. A. KELLNER Editor-in-chief

The impact factor of the *Anais da Academia Brasileira de Ciências* (AABC) has increased significantly over years, reaching for the first time a value above one (ISI-Thomson 2009, 1.074). This clearly shows the growing of this journal in the development of science worldwide, which is expected to increase further in the years ah

Among the interesting studies published in this issue of the AABC that should be highlighted is the work primary and secondary thickening in the stem of a monocotyledon species by Marina B. Cattai and Nanuz Menezes from the *Instituto de Biociências* of the *Universidade de São Paulo*. There is still great discussion of this thickening occurs in this major group of flowering plants. The debate on this subject started in the nin century and is nowadays centered in the notion of a "primary thickening meristem" (PTM, for a review see 1991). Addressing this question, Cattai and Menezes (2010) determined how primary growth takes place in *Cofruticosa*, also popularly known as cabbage palm, and how it affects the secondary thickening meristem. The have essentially based their study on histological cross-sections of specimens original from Asia, collected for garden of the *Instituto de Biociências*.

Still regarding plants, Edmilson Bianchini of the *Centro de Ciências Biológicas* of the *Universidade Estad Londrina* and colleagues provided new information that can help our understanding of the tree species eco what remains from the Atlantic Forest. As several authors have pointed out before, resource availability and di associations of habitat have a great influence during regeneration, reflecting wide ranges of vital rates amo (e.g., Wright et al. 2003). Bianchini et al. (2010) have studied the size structure and spatial arrangement different kinds of trees that were abundant in a riparian forest fragment located in the Paraná State. The main pof the research was to establish if the size and spatial structures differ among species groups and if the slorelated to the spatial distribution of the species. Their main results indicate that niche differentiation is most a fundamental factor with high influence on the way that the tree community is structured.

Moving from land to sea, it has been observed that seagrass beds are used by several species of fishes for proand food supply. Nonetheless, there is a need to quantify the role these ecosystems play as a refuge for species in reefs and estuaries (Adams and Ebersole 2002), particularly when these regions are close to heavily poareas and therefore subject to great influence by human impact. To provide more empirical data on the comstructure of the ichthyofauna that makes use of seagrass beds. Pedro Pereira and colleagues of the *Departum* 554

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they collected over 350 specimens, all from the Carneiro beach, that includes several ecosystems from mangroves to coral reefs. This kind of study might help policy makers in the difficult tasks to delimit areas and establish rules regarding the urgent conservation of such regions.

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