

POSTER PRESENTATION

TAXONOMY AND ULTRASTRUCTURE OF SEVERAL DIATOM SPECIES FROM CARAJÁS NATIONAL FOREST, PARÁ STATE, BRASIL

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Historical and recent literature suggest the diatom flora of South America, and especially Brasil, are quite unique, with many endemics described. Carajás National Forest is localized in Pará State of Brasil and created by Federal Decree in 1998. It is located in the Amazon region, with characteristics of humid equatorial climate, featuring more than 95% of area covered by forests, and the remainder, about 2 to 3% gaps formed by natural vegetation. This natural forest has a total area of approximately 411.000 hectares. It is limited to the area North of the Environmental Protection Area Igarapé do Gelado, Northwest with the National Forest of Tapirapé-Aquiri and in the West, with the National Indigenous Reserve Xikrin do Cateté. The Southwest is bounded by the river Itacaiúnas and Indigenous Reserve Xikrin do Cateté, is the southern most border with dry farms of others, the southeastern confines itself with the Igarapé Sossego and others properties East is limited by the river Parauapebas and others properties.

We are undertaking a survey of the diatoms of this national forest, and preliminary results suggest the diatom flora is unique within Brasil. In this poster we present ultrastructural and descriptions of interesting and unique species of the genera *Eunotia*, *Brachysira* and *Kobayasiella*. We discuss the uniqueness of the flora within South America and Brasil.