

PERMIAN POST GLACIAL COAL BEARING DEPOSITS IN THE PARANÁ BASIN, STATE OF SÃO PAULO, BRAZIL.

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From surface and subsurface data (GR logs and drill cores) acquired from projects for coal research it was possible to describe a post glacial stratigraphic unit positioned between the top of the glacial Itararé Group and the base of the post-glacial Tatuí/Palermo Formation (Permo-Carboniferous of the Paraná Basin, State of São Paulo, southeast Brazil). This unit is characterized by a river dominated delta depositional system in a progradational facies association. Based on several characteristics of this unit it is possible to correlate it to the Rio Bonito Formation which occur in the Brazilian southern states (Paraná, Santa Catarina and Rio Grande do Sul). Its occurrence in São Paulo is not continuous in area and these interruptions are interpreted as a result of its evolutionary sedimentary history. It is believed here that the Rio Bonito sedimentation initially took place in paleo-valleys scarved in the previous stratigraphic unit (Itararé) while the uplands are constituted by glacial generated rocks of the Itararé Group. The Palermo/Tatui formation (marine transgressive siltstones and mudstones) covers both units, interfingering with the Rio Bonito deltaic coal bearing deposits and in unconformity with the glacial Itararé sediments towards the paleovalley flanks and crests.