

## **UPDATING THE BRAZILIAN LEGAL AMAZON GEOLOGICAL MAP AT 1:2,500,000 SCALE**

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The Brazilian Legal Amazon encompasses an area of 5,217,423 square kilometers, about 61% of the Brazilian territory, comprising the North region and portions of Center-Western and Northeastern regions. The present updating is based on maps edited by IBGE/SUDAM in 1991. It was attempted to use the most recent data which were published by public and private companies in view of modern global tectonic concepts. Aiming at a better study of such wide region in terms of its lithological, structural and metallogenetic features, it was divided into structural provinces and related sub-provinces: Amazon (Eastern Guiana, Central Guiana, Eastern Amazon, Central Amazon, Center-Western Amazon, and Western Amazon), São Luís, Gurupi, Tocantins (Araguaia and High Paraguai), Amazonas-Solimões (Eastern and Western), Paraná, Parnaíba (Western) and Coastland. The Amazon and São Luís provinces represent Precambrian terrains related to the Brazilian Cycle, from Neoproterozoic; the Gurupi and Tocantins ones represent mobile belts reactivated at Neoproterozoic, while the Amazonas-Solimões, Paraná, Parnaíba and Coastland are mainly sedimentary sequences elaborated in the Phanerozoic. Striking structural features are delineated within the Brazilian Legal Amazon, many of them with resurgent character, especially in Amazon-Solimões, Paraná and Parnaíba provinces. At economic basis, the metallogenetic districts of Carajás (Fe, Au, Ag, Mn, Cu, Pb, Zn, Ni, Pt, Al), Gurupi (Au), Tapajós (Au, Sn), Ipitinga, (Fe, Au, Mn) Pitinga (Sn, Ti), Bom Futuro, (Sn, Ti), Trombetas (Al, caolin), Paragominas (Al, caolin), Almeirim (Al, caolin), Capim (caolin), Seis Lagos (Nb) and Urucu (oil, gas) deserve prominence.