

## **THE NEW 2000 GEOLOGICAL MAP OF FRENCH GUIANA AT 1:500,000 SCALE**

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The 2000 geological map of French Guiana (FG) was carried out under the responsibility of the French Geological Survey with collaboration from universities, mining companies and geological surveys in neighbouring countries, and with assistance from the French Army in FG rain forest. Existing published maps, both large scale and detailed, were used as a basis and upgraded using new georeferenced airborne geophysical data (1996) and petrostructural and geochronological field-investigation data. The map legend was established according to the absolute age of the rocks. More than 200 radiometric ages (mainly on zircon and monazite) were carried out to constrain the age of the formations. The main results include: i)- In the northern younger domain (2 to 2.1 Ga), a revised concept for the basin and granitic intrusions; ii)-in the southern older domain up to 2.2 Ga), evidence of an older Archean basement in the form of reworked relics in Rhyacian magmatic rocks and sediments. Special attention was paid to the komatiitic-meimechitic belt where diamonds were discovered in volcanoclastic ejecta. The precise geometry of the dyke swarm provides an image of the fracturing of the Jurassic passive margin. All data are stored in a geological database containing both an image of the map sheet (point-mode data) and a set of geological objects (vector-mode data).