

## **International Geochemical Mapping Project - Pilot Project in Brazil**

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The International Geochemical Mapping Project - Pilot Project in Brazil was carried out in an area of 625,000km<sup>2</sup> in Northeastern of Brazil, including the states of Alagoas, Ceará, Paraíba, Pernambuco, Rio Grande do Norte, Sergipe and part of the Bahia and Piauí states. Two different sampling methodologies were applied: (i) the IGCP-259 (UNESCO-IUGS) Final Report recommendations, using stream sediment and regolith as sampling media in low order drainage; and (ii) an alternative sampling model using floodplain sediment in high order drainage. Two hundred and forty stream sediment and regolith sampling sites were located in 27 cells (160km x 160km), georeferenced and photographed. In each cell, a composite sample was built for each media as a contribution to the implementation of a Global Geochemical Reference Network. In the alternative model, 119 floodplain sediments were collected. All of the samples of each media were analyzed for 38 major and trace elements by XFR; ICP-AES and other complementary analytical methods. For comparative studies, a plate was elaborated, with individual element distribution in each sampled media. Therefore, for each element, 5 distribution maps were plotted (stream sediment, regolith, floodplain sediment, cell-composite for stream sediment and cell-composite for regolith) and an additional geological outline.