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Trace eleents in rocksapp les frontinguéBasin in Coroa Grande – Rio de Janeiro

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The goal of the present work was to determine the concentration of 21 elements by instrumental neutron activation analysis (INAA) and subsequent gamma spectrometry, in order to investigate the contribution of the local lithology of the Itinguçú River Basin Drenage, that ends in a mangrove area not yet largely impacted by others sources such as industrial and domestic waste. So far there is no available data for trace elements of the lithology and this data is important to the understanding of the contribution of the rocks to the mangrove sediments. The results showed some enrichment of Th and some light rare earth. This is probably due to the presence of allanita, a mineral found by petrographic analysis.