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PRELIMINARY RESULTS OF THE "SANTA CATARINA" TRANSECT

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The Santa Catarina Transect, number one among the Brazilian transects, crosses the continent in the E-W direction along the parallel of 27°40'S, from the Atlantic coast up to the Argentinian border.

In its eastmost portion, the Precambrian terrains of the Dom Feliciano Belt structure outcrop for about 170 km, being westward progressively covered by the sediments and lava-flows of the Paraná basin. All the western portion of the transect crosses the Paraná sinclipsis.

The main geophysical data along the transect, available at the moment, are gravity and aeromagnetic surveys. A few boreholes drilled for petroleum exploration provide some control of the sediments and lava sequences and of the topography of the basement underneath the Paraná basin.

Geological data are well detailed in the outcropping portion of the Dom Feliciano Belt, and the available reports from the petroleum companies provide valuable informations on the basin structure.

Preliminary gravity data, inverted for the whole transect, are presented and compared with the magnetic signature, when available. A compatible geological vertical section is presented in correspondence with the gravimetric interpretation.

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