OZONE MEASUREMENTS IN BRAZIL

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ABSTRACT

Brazil can be divided in about 4 on 5 ecosystems which have a strong potential to affect the lower atmosphere. The Amazonian rain forest in the West; the cerrado in Central Brazil; the Pantanal (actually part of the cerrado but with the additional characteristic of being inundated seasonally); the caatinga of the Northeast; and the region of the Atlantic shore in the East. To explore these natural environments in terms of their effects on the chemistry of the lower atmosphere INPE has started continuous ozone measurements at Natal (6° S, 35° W) and Cuiabá (16° S, 58° W). Special measurement campaigns have been performed in Amazonia. At the Natal site, ozone profiles are measured in the troposphere and stratosphere since 1978. Recent results will be presented and plans for the future will be discussed.

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