

## **RECENT EXPERIMENTS ON ATMOSPHERIC COUPLING PROCESSES IN THE EQUATORIAL REGION OVER BRAZIL**

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The role of tropical convection in the dynamical coupling of atmospheric and ionospheric regions over the equatorial region has been actively studied in Brazil. A variety of equipments observing the mesosphere and ionosphere have been installed in diverse sites in equatorial and tropical regions. Also, the peculiar configuration of the magnetic declination in the region has attracted considerable attention. Understanding the generation and propagation characteristics of small-, intermediate-scale and large-scale wave motions generated in the lower and middle atmosphere has been the main purpose of these experiments. Results of the regular experiments as well as special campaigns which took place recently will be reviewed.

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