NEUTRAL WIND CONTROL OVER PLASMA BUBBLES ZONAL VELOCITIES AT BRAZILIAN LOW LATITUDES

by

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ABSTRACT

Simultaneous E-W scanning photometric measurements of the OI 630 nm night airglow have been performed at north and at south of the Brazilian low latitude (dip = 28°) station Cachoeira Paulista (C.P.). Those scannings were performed within planes inclined 30° north and 30° south of C.P. zenith. The measurements carried out during 5 days covering the equinoctial summer period of 1988, show evidence of marked latitudinal gradient in the bubble zonal velocities, the velocities decreasing polewards. This work introduces and discusses the results cited above in the context of the low latitude ionosphere dynamics.