

Ionospheric Plasma Bubble zonal drift velocity observed at Southern Space Observatory (SSO)

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Ionospheric Plasma Bubble observation has been carried out at Southern Space Observatory - SSO (29 S, 54 W), Brazil, since 2004, by using an airglow OI6300 imager. The bubbles are frequently observed during the period from September to March through December (southern summer season). The zonal drift velocity was derived from a sequence of the OI6300 images making a Keogram. Comparing the results from South of Brazil with other Brazilians observatories, such as Cachoeira Paulista (23 S, 45 W) and Cariri (7 S, 36 W), it shows that the zonal velocity varied between 100 and 200 m/s.