



LATITUDINAL DIFFERENCES OF MEDIUM-SCALE TRAVELING IONOSPHERIC DISTURBANCES OBSERVED OVER ANDES MOUNTAINS

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ABSTRACT

Traveling Ionospheric Disturbances (TIDs) are fluctuations in the ionospheric plasma, influenced by gravity waves originated from several sources, e.g., convective storms, earthquakes, orography, auroral heating and others. The occurrence of the TIDs was monitored by detrended Total Electron Content (dTEC) maps observed by ground-based GNSS (Global Navigation Satellite System) receiver networks in Andes region. This presentation will address the latitudinal, time occurrence and seasonal differences of TIDs, and compare it with the results already published in South America.