



Statistical analysis of GPS ionospheric scintillations measured in Vietnam in 2006

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Amplitude and phase scintillations have been measured at equatorial latitudes in Vietnam since 2005, using the signal transmitted by the GPS satellites. Our paper presents statistical results obtained over a one year low solar activity period in 2006. Two GSV4004 stations have been installed, one in Hue (16,46°N, 107,59°E) and the second one in Hoc Mon (10,83°N, 106.55°E). Processed data were recorded continuously with a 1 minute time resolution. S4 index and phase standard deviation (σ_{ϕ}) are the parameters used to characterize the scintillations. Statistics show a maximum occurrence during spring and autumn in the local time sector 18-24 LT, in agreement with observations performed at equatorial latitudes in other parts of the world. There are some similarities between s4 and σ_{ϕ} variations. When considering the effect of azimuth and elevation angles it is shown that peaks in occurrence appear at azimuths near 180° and 360° and mainly for elevation angle smaller than 50°.