

Seasonal variation of the plasma bubble occurrence rate

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We investigate the seasonal variation and the azimuthal distribution of the amplitude scintillation occurrence rate with the data observed by GPS ground receiver at Kototabang from 2010 to 2015. Its year-to-year variation shows the well-known solar activity. It also confirms the known seasonal variation, with local maxima in equinoxes and the local maximum in March is larger than that in September as reported in previous work. Furthermore, it also shows an azimuth preference, with stronger occurrence rate in the south. This feature is similar to that obtained by [Abadi et al., 2017] at Pontianak and Bandung. This is mainly because the equatorial ionization anomaly (EIA) crest locates in this direction.

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