

The properties of ionosphere during extreme low solar activity over the equatorial ionization anomaly crest area

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The solar activity during 2008-2009 is extremely unusually long lower, which offers us an opportunity to study the properties of ionosphere over the equatorial ionization anomaly crest area. This study collected ionospheric data from ground-based observation of Chung-Li and GPS data of TWTF receiver during 2008-2009. In this investigation, we show the seasonal, monthly, and daily variations during the prolonged low solar activity. Meanwhile, the result also compared with the ionospheric properties during high solar activity period. Furthermore, a comprehensive discussion of the physics processes for the variation of ionosphere during the prolonged low solar activity period.

Keywords: ionosphere, EIA, ionospheric dynamics, ionospheric physics