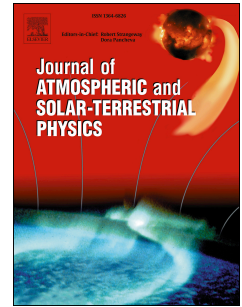


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Impact of non-migrating tides on the low latitude ionosphere during a sudden stratospheric warming event in January 2010

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30 Keywords: Ionosphere; Whole Atmosphere Modeling; Sudden Stratospheric Warming; Non-
31 migrating tides; Vertical Coupling

32
33 Highlights

34 Modeled ionospheric variations during January 2010 due to the lower atmosphere.

35 Model captures increase in TEC over South America during several days in January.

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37 High fidelity meteorology is important in understanding ionospheric variability.
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