



## **Ionospheric variation in East Asian low latitude region during 2016-2017 SSW event**

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The mesospheric, thermosphere and ionosphere (MTI) behave large specific variations globally during SSW event. There is strong vertical coupling between these different atmospheric levels. So it is helpful to understand the coupling process among MTI and the variations in these atmospheric level through studying the specific variations of parameters in different regions. Here, based on the MTI parameters observed from ground and satellites in East-Asian sector during 2016-2017 SSW event, the variation of the northern EIA region in this sector are analyzed. It is found that the neutral wind from meteor radar behaves different variations in different height, the Equatorial Electro Jet (EEJ) from ground geomagnetic data, the ionospheric density in different ionospheric height and the location of the EIA crest from TEC map exhibit clear quasi 16 day periodic variations, and these periodic variations in different region is concurrence. It is suggested that these concurring periodic variation should be related to the 2016-2017 SSW event.