

## On the Relation between Sporadic-E and ENSO Observed by FORMOSAT-3/COSMIC

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In recent years, many studies have shown evidence for several types of atmosphere-ionosphere coupling. In this study, we show the possible relation between Sporadic-E (Es) and El Nino-Southern Oscillation (ENSO) by using the FORMOSAT-3/COSMIC S4 scintillation index and tropopause height from 2007 to 2014. The long-term variation of the monthly global median S4 index in the E-region shows similar trend to ENSO, suggest that Es may be related to ENSO. The wavelet analysis may help us to verify the similar trend between scintillation and ENSO, but the mechanism of this coupling phenomenon still needs to be discussed and further explored.

Keywords: Sporadic E, ENSO, Tides