

## Abstract Details

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### ★ Abstract title:

Exploring Variability of Tippers at Coastal and Island Observatories Due to Temporal Variations of Oceanic Electrical Conductivity

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As it was shown recently, tippers at geomagnetic observatories located in the vicinity of the ocean can be used to constrain electrical conductivity of lithosphere and upper mantle. However, over the time the tippers exhibit small but systematic seasonal variations which are believed to be of external origin. In this study we investigate whether the part of tippers' variability at coastal and island observatories is due to temporal variations of the oceanic electrical conductivity. We perform numerical modeling of the effect, and compare modeled variability with that estimated from the data.