

## Comparison between the ionospheric holes between inland earthquakes and subduction earthquakes with tsunami.

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We investigate the ionospheric holes generated by two inland earthquake and two subduction earthquakes with tsunami of which magnitudes are similar, using data of GPS total electron content. For the comparison, the ionospheric hole clearly appeared only in the subduction earthquakes. From our interpretation, this is due to the difference of the initial conditions to excite the acoustic waves.

Keywords: Ionospheric hole, Inland earthquake, Tsunami