



An advantage of magnetic index η to show high local disturbances in ionosphere during quiet day conditions.

Beata Dziak-Jankowska (1), Iwona Stanislawska (1), Dalia Buresova (2), Tomasz Ernst (3), and Lukasz Tomasik (1)

(1) Space Research Centre PAS, Warsaw, Poland (bdziak@cbk.waw.pl), (2) Institute of Atmospheric Physics AS CR, Prague, Czech Republic, (3) Institute of Geophysics PAS, Warsaw, Poland

We analysed data of ionospheric characteristics (foE, foEs, foF2, h'E, h'F2) during 30-day long quiet day conditions ($K_p = 0-2$) in 2004. We found correlations between high local disturbances in ionosphere during very quiet days and high values of magnetic index η . The coexistence of E sporadic layer or high local disturbances of the foE during magnetically very quiet days with large values of magnetic index η will be shown. The not large amount of analysed quiet days and area limited only to Europe and South Africa are not enough to prove thesis that η index is perfect to predict existence of E sporadic layer.