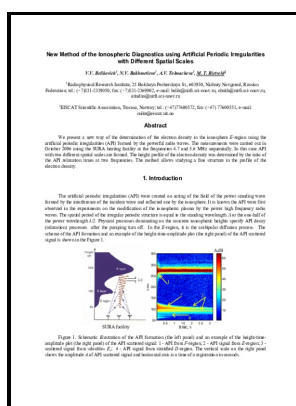


Ionospheric research by means of artificial periodic irregularities

Copernicus - Relaxation Time of Artificial Periodic Irregularities of the Ionospheric Plasma and Diffusion in the Inhomogeneous Atmosphere

Description: -

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Agriculture and state -- United States.
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Middle aged men -- Health and hygiene.
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Notes: Bibliography: p. 150-160.
This edition was published in 2002



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#Electronics

Tags: #Results #of #Determining #the
#Electron #Number #Density #in #the
#Ionospheric #E #Region #from
#Relaxation #Times #of #Artificial
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Relaxation Time of Artificial Periodic Irregularities of the Ionospheric Plasma and Diffusion in the Inhomogeneous Atmosphere

Three parameters are taken into account in the solution, namely, the size of the region occupied by the irregularities, the size of the irregularities, and a typical spatial scale of the e-fold decrease in the diffusion coefficient. In addition, the method can be used to measure Faraday rotation and vertical velocities. Basing on the measurement results for the velocity of the vertical plasma motion and the electron profile density in the E region of the ionosphere, which were obtained by the method of resonance scattering of radiowaves by an artificially produced periodic structure, we....

High latitude artificial periodic irregularity observations with the upgraded EISCAT heating facility

Radiophys Quantum El 56, 187—196 2013. Results of Determining the Electron Number Density in the Ionospheric E Region from Relaxation Times of Artificial Periodic Irregularities of Different Scales.

Turbopause range measured by the method of the artificial periodic irregularities

. Journal Radiophysics and Quantum Electronics — Springer Journals Published: Nov 18, 2008 APA Belikov, V.

High latitude artificial periodic irregularity observations with the upgraded EISCAT heating facility

Subject Physics; Astronomy, Observations and Techniques; Quantum Optics; Theoretical, Mathematical and Computational Physics; Astrophysics

Results of Determining the Electron Number Density in the Ionospheric E Region from Relaxation Times of Artificial Periodic Irregularities of Different Scales, Radiophysics and Quantum Electronics

Above the observation point the turbopause region occupies the altitude interval between 94 and 106 km. Ratcliffe, An Introduction to Ionosphere and Magnetosphere, Cambridge Univ.

Relaxation Time of Artificial Periodic Irregularities of the Ionospheric Plasma and Diffusion in the Inhomogeneous Atmosphere

They are compared with variations in the atmospheric parameters at these heights.

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Results of Determining the Electron Number Density in the Ionospheric E Region from Relaxation Times of Artificial Periodic Irregularities of Different Scales Results of Determining the Electron Number Density in the Ionospheric E Region from Relaxation.

High latitude artificial periodic irregularity observations with the upgraded EISCAT heating facility

We also introduce a novel experiment that allows monitoring the formation of the irregularities during heating, in addition to observing their decay after heating. Radiophysics and Quantum Electronics, 51 6 , 431-437. There are changes in the level of the turbopause during the day: in the evening hours the turbopause level can go down.

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