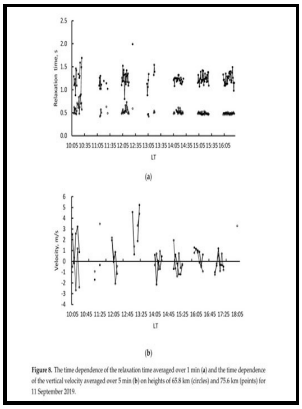
Ionospheric research by means of artificial periodic irregularities

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



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-Ionospheric research by means of artificial periodic irregularities
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Turbopause range measured by the method of the artificial periodic irregularities

We present a recently developed ionospheric modification experiment that produces artificial periodic irregularities in the ionosphere and uses them to make observations of the spatiotemporal behaviour of the irregularities.

Turbopause range measured by the method of the artificial periodic irregularities

Radiophysics and Quantum Electronics, 51 6 , 431-437. Eger, Conduction of Heat in Solids, Oxford Clarendon Press 1959.

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

Relaxation Time of Artificial Periodic Irregularities of the Ionospheric Plasma and Diffusion in the Inhomogeneous Atmosphere. . Results of Determining the Electron Number Density in the Ionospheric E Region from Relaxation Times of Artificial Periodic Irregularities of Different Scales.

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

A new opportunity for estimating the level of the turbopause is presented.

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

In addition, the method can be used to measure Faraday rotation and vertical velocities. Experiments were carried out using SURA heating facility 56. Subject Physics; Astronomy, Observations and Techniques; Quantum Optics; Theoretical, Mathematical and Computational Physics; Astrophysics and Astroparticles; Nuclear Physics, Heavy Ions, Hadrons; Optics, Lasers, Photonics, Optical Devices ISSN 0033-8443 eISSN 1573-9120 DOI 10.

Turbopause range measured by the method of the artificial periodic irregularities

It is shown that the method can be used for a study of the irregular structure of the lower ionosphere. Theoretical relaxation times of the irregularities as functions of these parameters are analyzed. Calculated relaxation times of these irregularities are in good agreement with the observed values.

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