

Contents

Vol. 49, No. 4, 2009

Simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd.
Distributed worldwide by Springer. *Geomagnetism and Aeronomy* ISSN 0016-7932.

Studying Correlations between the Coronal Hole Area, Solar Wind Velocity, and Local Magnetic Indices in the Canadian Region during the Decline Phase of Cycle 23	
<i>Yu. S. Shugai, I. S. Veselovsky, and L. D. Trichtchenko</i>	415
Variations in the ULF Index of Geomagnetic Pulsations during Strong Magnetic Storms	
<i>O. V. Kozyreva and N. G. Kleimenova</i>	425
Resonance Properties of Psi5/Psc5 in Geostationary Orbit	
<i>N. A. Zolotukhina</i>	438
Dynamics of the Ionospheric Electric Currents and Auroral Luminosity Boundaries during Strong Magnetic Storms	
<i>S. I. Solovyev, R. N. Boroyev, A. V. Moiseyev, A. Du, and K. Yumoto</i>	450
Burst Regimes of Long-Period Irregular Pulsations at Frequencies of 2.0–6.0 mHz and Substorm Activity in the Nightside Magnetosphere	
<i>N. A. Kurazhkovskaya and B. I. Klain</i>	461
Parametric Effects in Inhomogeneous Plasma during Injection of Electron Pulses into the Ionosphere	
<i>N. I. Izhovkina</i>	471
Ionospheric Effects of Solar Eclipses at Midlatitudes	
<i>A. A. Kovalev, A. G. Kolesnik, S. A. Kolesnik, A. A. Kolmakov, and R. R. Latypov</i>	476
Relation of the <i>F</i> Region to Stratospheric Parameters: Possible Relation to the Atmospheric Dynamics	
<i>A. D. Danilov and L. B. Vanina-Dart</i>	483
Vertical Structure of the Midlatitude Winter <i>F</i> Region of the Ionosphere during Postmidnight Enhancements in <i>NmF2</i>	
<i>A. F. Yakovets, V. V. Vodyannikov, G. I. Gordienko, and Yu. G. Litvinov</i>	490
Spectrum of Quasi-Wave Disturbances in the Topside Daytime Ionosphere according to the Data of Radiosounding onboard the Intercosmos-19 Satellite	
<i>P. F. Denisenko and A. T. Karpachev</i>	497
Variations in the Fractal Dimension of Fluctuations of the Ionospheric <i>F2</i> Layer Critical Frequency	
<i>V. E. Chertoprud, L. N. Leshchenko, G. V. Givishvili, E. E. Goncharova, and G. S. Ivanov-Kholodny</i>	503
Splitting of the Doppler Frequency Shift of bi-Static Backscatter Signals during the Sura Experiments	
<i>T. D. Borisova, N. F. Blagoveshchenskaya, V. A. Kornienko, V. L. Frolov, G. G. Vertogradov, and V. G. Vertogradov</i>	510

Effects of Planetary Waves in Parameters of the Midlatitude Sporadic <i>E</i> Layer	
<i>E. Yu. Zykov, O. N. Sherstyukov, and A. D. Akchurin</i>	519
Relative Concentration of Oxygen Atoms and Molecules at a Height of 120 km according to the Data of Ionospheric Measurements	
<i>L. A. Shchepkin, G. M. Kuznetsova, and G. P. Kushnarenko</i>	524
Variations in the Atomic Oxygen 630 nm Emission Intensity Related to Orography	
<i>G. A. Nasyrov</i>	528
Variations in the Parameters of VLF Signals on the DEMETER Satellite during the Periods of Seismic Activity	
<i>M. S. Solovieva, A. A. Rozhnoi, and O. A. Molchanov</i>	532
Structure of Triads in Geostrophic Turbulence	
<i>M. Yu. Reshetnyak</i>	542
