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## **Analysis of parameters coupled to ionosphere processes**

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Ionosphere is a variable system influenced by solar activity, geomagnetic situation, and neutral atmosphere processes as well. There is a wide range of periods - from minutes (Traveling Ionospheric Disturbances) to a length of solar cycles and even more. To understand a complexity of the geophysical system we present spectral and scaling analyses of solar, geomagnetic, ionospheric and neutral atmosphere parameters to indicate couplings of the studied processes within the selected ranges of periods.