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Solar radio emission as a tool for identifying geoeffective solar phenomena

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Powerful solar phenomena, such as flares, coronal mass ejections, affect the space environment, the dynamics of near-Earth space. As a rule, sudden disturbances in the near-earth space environment can cause disruptions in the operation of various communication systems, of ground-based electrical energy systems. In this regard, it is relevant to develop recommendations for identifying geoeffective solar phenomena that cause unfavorable magnetic ionospheric disturbances. The use of solar radio emission for solving the problems posed seems to be effective due to the fact that practically all processes occurring on the surface of the Sun and its atmosphere are reflected in radio emission. The report presents the main results of studies on the development of methods for determining the degree of geoeffectiveness of powerful and proton solar flares, coronal mass ejections from solar radio emission data.

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Student poster?

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