

Russian Space Missions Directed for Energetic Particles Impact on the Earth's
Atmosphere Effect Study

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There are several space projects now in Russia are directed for study of atmospheric effects which can be caused by energetic charged particles [relativistic electrons and protons] penetrating into upper layers of atmosphere. Among them there are precipitations from radiation belts, penetration of solar particles and, possibly, runaway electrons from thunderstorms regions. These particles fluxes can initiate modifications of atmospheric parameters, including TLE's. This report will be devoted to the detailed descriptions of the future experiments included in the Federal Space Program of Russia.