## **Explosive Energy Dissipation in the Environment of Magnetized Planets**

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Using data from recent space missions we present a review of the plasma events leading to magnetic energy dissipation and particle accelerations in planetary magnetospheres as well as to plasma escape from non magnetized planets. We will discuss solar wind driven and rotationally driven chain of processes occurring around the magnetized planets in the solar system. Auroral UV and radio emissions will be used as diagnostic tools of the dynamics of the solar wind, magnetosphere, ionosphere, coupled system.