

TOPS mission

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We present a new mission TOPS, which aims to make observations of plasma spaces in various planets in our solar system. TOPS is a principal candidate for the new category Small Satellite Series in JAXA.

It is very important to put an observing site beyond the atmospheric absorption when we observe at the extreme ultraviolet wavelength, and which enables us to study Io plasma torus of Jupiter, and interaction of the solar wind upon the upper atmosphere of the planets and their escape. The details of the sciences will be introduced in other session of this meeting.

TOPS employs a new standard bus module developed for the new category in JAXA. The satellite will be launched in space by the new solid propulsion rocket. The observing module contains a spectrometer of the extreme ultraviolet radiation, a target finding camera, and a mission data processor. The target mass of the space craft is 350Kg.

We will introduce the mission and its instrument, and the scientific targets.