

SPRINT-A/EXCEED Mission

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We present a new mission SPRINT-A/EXCEED, which aims to make observations of Jupiter's Io plasma torus and the escaping atmosphere of Venus and Mars and their flux dependences on strength of the solar wind flux at the extreme ultraviolet(EUV) wavelength. SPRINT-A/EXCEED is the first mission of the new category Small Satellite Series in JAXA, and is in the phase-B now. The mission payload contains an EUV spectrometer, and a guiding camera which maintains the pointing accuracy of the mission. SPRINT-A/EXCEED employs a new standard and flexible satellite bus module developed for the series in JAXA. The satellite will be launched in space by the new solid propulsion rocket in 2012. The mass and the size of the space craft is 280Kg, and 1m X 1m X 4m. We will introduce the mission and its instrument, and the scientific details.