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The EXCEED mission and the next

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An earth-orbiting Extreme Ultraviolet spectroscopic mission, EXtreme ultraviolet spectrosCope for ExosphEric Dynamics explore (EXCEED)

is ready to be launched in 2013 to 800 km x 1200 km orbit and will start the observation in November.

The EXCEED mission will carry out out-of-atmosphere observations of Extreme Ultraviolet (EUV: 60-145 nm) emissions from tenuous plasmas around the planets (Mercury, Mars, Venus, and Jupiter).

Our operation scenario is that the EXCEED points to Jupiter from November to March(2014), Mercury (mid March to mid April), and later Vunes and Mars.

Most importantly, HST and some important ground-based telescopes will observe Jupiter with EXCEED in the spectral range from UV to IR.

This is precursive for the next exploration to Jupiter.

I will present the overall EXCEED mission (qualification result and observation plan), the cooporative observation with HST in Decemver, and the next Jupiter exploration (JUICE).

Keywords: EUV, Jupiter, JUICE, EXCEED, planetary airglow