

The simulation of imaging the resonantly scattering emission by outflowing oxygen ions of polar ionospheric origin

Shinichi Tashiro[1], Atsushi Yamazaki[2], Masato Nakamura[3], Wataru Miyake[4], Yoshiyuki Takizawa[5], Masao Endo[6]

[1] Chuo Univ., CRL, [2] Univ. of Tokyo, [3] Earth and Planetary Sci, Univ. Tokyo, [4] CRL, [5] RIKEN, [6] Chuo Univ.

The Extreme ultraviolet scanner (XUV) on board the SS-520-2 rocket will detect the 83.4 [nm] emission in solar radiation resonantly scattered by outflowing oxygen ions of polar ionospheric origin. The two-dimensional image of the emission makes possible to determine the oxygen ion distribution. We evaluate the expected intensity and two-dimensional image of the emission.