

Remote sensing of hydrogen geocorona using the ultraviolet imaging spectrometer on board the NOZOMI spacecraft

Yuichi ITO[1], # Hiroshi Fukunishi[2]

[1] Dep of Geophys, Tohoku Univ, [2] Department of Geophysics, Tohoku Univ.

Remote sensing technique of the hydrogen corona was studied using geocoronal data obtained by the ultraviolet imaging spectrometer (UVS) on board the NOZOMI spacecraft. We developed the results on a retrieval technique of hydrogen coronal density profile and temperature and performed the evaluation of the UVS instrument. We also performed a simulation study of the D/H absorption cell.