

Low frequency plasma waves at the dayside magnetopause

Chiharu Yamamori [1], Yasumasa Kasaba [2], Toshimi Okada [3]

[1] Electronics and Informatics, Toyama Pref. Univ., [2] Toyama Prefectural Univ., [3] Electronics and Informatics, Toyama Pref Univ

At the dayside magnetopause the enhancement of electrostatic plasma wave has always been observed by the GEOTAIL spacecraft. We have investigated these electrostatic waves at the dayside magnetopause observed from January 1995 to December 1996 by GEOTAIL, taking account the relation to the dayside reconnection phenomena. We find that plasma waves seems to be more enhanced in the region with 8-10h and 14-16 MLT, and decreased in the downstream region. We also find the enhancement of the plasma waves when the interplanetary magnetic field turns to southward. We also hope to spectral variations, correlation to Magnetic shear angle, and wave modes of these waves.