

Radiation characteristics of Jovian hectometric radiation observed by the Cassini and Wind spacecrafts

Satomi Ito[1]; Hiroaki Misawa[1]; Fuminori Tsuchiya[2]; Akira Morioka[3]; Tomoki Kimura[4]

[1] PPARC, Tohoku Univ.; [2] Planet. Plasma Atmos. Res. Cent., Tohoku Univ.; [3] Planet. Plasma and Atmos. Res. Cent., Tohoku Univ.; [4] Planet. Plasma Atmos. Res. Cent., Tohoku Univ.

In general case, Jovian hectometric radiation (HOM) shows short term intensity variation with time scale of minutes. We have investigated precise radiation characteristics of HOM to reveal their origins using radio wave data simultaneously observed with Cassini/RPWS and Wind/WAVES. As a result of the analysis, it is suggested that the short term variation is generated by a thin hollow cone radiation pattern swept with Jupiter's rotation.