

Interaction processes between the solar wind and the Jovian magnetosphere inferred from non-Io DAM emissions.

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Observations of non-Io Jovian decametric radiations have been carried out by using the newly developed radiometer system at Zao laboratory of Tohoku University from Nov. 4, 2000 to Dec. 29, 2000, during the period of the Jupiter's opposition.

During this period, several non-Io-DAM emissions have been observed possibly relating to the solar wind disturbances identified by the WIND satellite. On the basis of the data obtained in this event study, we discuss quantitatively solar wind control processes of DAM emissions, i.e., how much solar wind energy can be finally converted into the energy of DAM emissions.