

Dependence of bow shock structure on solar wind parameters

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In order to understand the dependence of the shock structure on the solar wind parameters, we carry out some event studies of the Geotail bow shock crossings under extreme solar wind conditions.

We investigated high Mach number of solar wind observed by the WIND satellite. Then we found electron acceleration event by LEP on Geotail. We also analyzed Geotail CPI,LEP to investigate shock parameters.

We will discuss how the shock structure changes depending on the solar wind condition.