

## Geotail observations in the near-Earth plasma sheet and their implication to particle acceleration in the inner magnetosphere

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Since its launch in July 1992, the Geotail spacecraft has been in operation for longer than one solar cycle. The spacecraft provided a vast amount of data in the magnetotail, the magnetosheath, and the solar wind. Recent studies using the Geotail data in the near-Earth plasma sheet unveiled phenomena which have not considered before. These results give an important implication about particle acceleration in the near-Earth plasma sheet and the inner magnetosphere. In this talk these Geotail studies will be reviewed in the context of the future satellite mission for the inner magnetosphere.